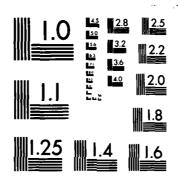
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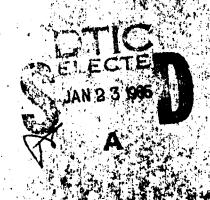
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PREPARED BY
FORCE SYSTEMS DIRECTORATE

US ARMY CONCEPTS ANALYSIS AGENCY 8120 WOODMONT AVENUE BETHESDA, MARYLAND 20814-2797



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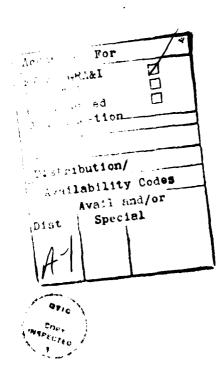
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PERSONNEL READINESS INDICATOR MODEL (PRIM) DOCUMENTATION USER MANUAL

NOVEMBER 1984

PREPARED BY
FORCE SYSTEMS DIRECTORATE

US ARMY CONCEPTS ANALYSIS AGENCY 8120 WOODMONT AVENUE BETHESDA, MARYLAND 20814-2797



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PERSONNEL READINESS INDICATOR MODEL (PRIM) USER MANUAL

SECTION 1

GENERAL DESCRIPTION

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1.1 PURPOSE OF THE USER MANUAL. The purpose of this User Manual for the Personnel Readiness Indicator Model (PRIM) is to provide non-ADP personnel with the information necessary to effectively utilize the system.

1.2 PROJECT REFERENCES

- a. Study Directive, subject: Personnel Readiness Indicator Model (PRIM) Study, 26 September 1983.
- **b.** FORECAST A study designed to improve and replace many of the enlisted and officer inventory projections and distribution models. FORECAST does not directly address personnel readiness.
 - c. Army Regulation 220-1, Unit Status Reporting.
- **d.** Program Maintenance Manual for the Personnel Readiness Indicator Model (PRIM), CAA-D-84-2, September 1984.
- e. Functional Description for the Personnel Readiness Indicator Model (PRIM), CAA-D-84-1, September 1984.
- f. Personnel Readiness Indicator Model (PRIM) Study Report, CAA-SR-84-5, September 1984.
- g. The referenced policy guidance memorandums were used to determine the types of policies which were modeled by PRIM. The PRIM design is not dependent upon the specific policies stated in the following:
- (1) DCSPER Memorandum, subject: Enlisted Distribution Policy Guidance, 4 October 1982.
- (2) DCSOPS Memorandum, subject: Policy Guidance: Personnel Fill for Force Modernization, 13 September 1982.
- (3) DCSPER Letter, subject: Officer Distribution Policy Guidance, FY 83, 4 October 1982.
- 1.3 TERMS AND ABBREVIATIONS. The following listing provides an explanation of acronyms and terms subject to interpretation by the reader. Acronyms for data variables are defined in the Program Maintenance Manual, Appendix A, Data Dictionary, of the PRIM Program Maintenance Manual, and the names are defined in Appendix A, File Descriptions, in this User Manual.

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activity

Pay grade at an MOS at a particular demand

AR 220-1

Unit status reporting regulation for reporting the current status of selected Active and Reserve Component units.

ASCII

American Standard Code for Information

Interchange.

ASGMT

Assignment code.

assignment code

Major command or DA staff agency to which the unit is assigned. The abbreviation is ASGMT.

AUDB

Authorization Data Base is the MILPERCENdeveloped base for authorizations by UIC, MOS/SC, and grade for MTOE, table of distribution and allowances (TDA), and TDA augmentation organizations.

authorized jobs

The number of jobs that should be filled during peacetime. This number is frequently constrained to a smaller number of jobs than the required jobs. Either authorized or required jobs may be specified as the jobs for

PRIM.

available MOS percentage

The available MOS-trained strength divided by the required modified table of organization (MTOE) strength and converted to a percentage.

available people

In PRIM, those personnel assigned to an ISSUE who are available for duty rather than sick, on leave, or unavailable for duty for other specified reasons. For a complete list, see Appendix B of AR 220-1.

available senior-grade percentage

The total number of available commissioned, warrant officers, and E-5 to E-9 enlisted grades, divided by the total required number of commissioned, warrant officers, and grades E-5 to E-9 converted to a percentage.

available strength

The total available strength divided by the required MTOE strength and converted to a percentage.

CAA

US Army Concepts Analysis Agency.

C-rating

The personnel readiness rating for an ISSUE based upon criteria in AR 220-1. It is the lowest of three ratings: senior grade, available MOS trained, or available strength.

CAP III

System currently used for enlisted assignments. It has a subsystem called MAX/FIT/FILL which does the actual assignments.

demand

Real job or super job.

DOPMA

Defense Officers Personnel Management Act.

excess people

The number of people, by MOS and grade, that

have not been assigned by PRIM.

goal percentage

The minimum percentage of total aggregate

fill.

high 5 or high five

The highest five enlisted grades, E-5, E-6,

E-7, E-8, and E-9.

inventory

See projected personnel inventories.

ISSUE

An aggregation of units for the purpose of highlighting <u>Individual Systems</u>, <u>Similar</u>

Units or Equipment.

job data

The jobs which will have personnel assigned to them by the assignment processor. The jobs are of a specific MOS or SC, grade level, and may be either required or authorized jobs.

LOCCO

Location code.

MACOM

Major Army command.

MILPERCEN

Military Personnel Center.

MOS

Military occupational specialty is a code representing the type of skill in which enlisted personnel or warrant officers have been trained and should be assigned to perform. Also used in the PRIM job data file to describe the skill the person, whether enlisted or officer, assigned to a job must possess.

MTOE

Modified tables of organization and equipment.

number of people

The set of "combined enlisted and officer

personnel available" inventory.

ODCSPER

Office of the Deputy Chief of Staff for

Personnel.

OF IP

Officer Force Implementation Plan.

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parameters

Data values which are specific to each run and must be set by the user.

personnel data

The number of people (officers and enlisted) by MOS or SC grade that MILPERCEN expects will be available; the output of the P3M Model for enlisted personnel and the OFIP for commissioned officer personnel.

personnel policies

Rules that a set of assignments should meet, i.e., DARCOM will be supported at 100 percent of officer and warrant officer authorizations for SC 51 (research and development) and SC 97 (procurement).

PNET

A mathematical programing system for solving network flow problems. It embodies advanced network theory and computer science niques; an efficient, commercially kilable network solution routine. It solve problems as a minimum cost network flow.

policy

In PRIM, policies are the statements of minimum and maximum fill levels which have been in effect or are being tested prior to implementation. Policies may apply to all MOS, specific MOS, or specific grade levels. Policies modeled by PRIM must be converted to computer-readable format.

P3M

The Personnel Policy Projection Model which is used by MILPERCEN to develop inventories for use as personnel data. It computes, by MOS and grade level, the projected enlisted personnel inventory.

projected MTOE/TDA
 authorizations

The number of people, by specialty and grade, that will be needed in each unit (three-digit UIC) at a future time.

projected personnel
inventories

The number of people, by specialty and grade, who are assumed to be in the Active Army at a future time.

required jobs

The jobs that must be filled if a unit is to achieve maximum readiness. Required MTOE jobs are used in PRIM for computation of C-ratings, IAW AR 220-1.

SC

Commissioned officer specialty code. In PRIM, SC is called MOS.

senior grade Personnel in grades E-5 through E-9, WO, and

01 through 06.

STACO Station Code.

super job Imaginary job where personnel are assigned

when no "real" jobs are left to be filled.

super soldier Imaginary person assigned to a job when no

person fitting requirements is available.

TPSN Troop program sequence number.

UIC Unit identification code - a code to identify

uniquely each unit of the Active Army and Army Reserve Components. Although the UIC is normally six characters, the PRIM UIC is the "three-digit UIC" (characters 2-4 of UIC)

unless otherwise stated.

unavailable factors A standard factor representing the percentage

of people not available for duty; input

through the parameter file.

unfilled jobs The jobs that have not had people assigned by

PRIM.

1.4 SECURITY AND PRIVACY. All program code and listings are considered UNCLASSIFIED and require no special security considerations.

Outputs will be classified at the same level as the classification of the definition of ISSUES.

The personnel data used as input to PRIM is an output of an inventory projection model and does not contain information on individual people. Therefore, this section is not applicable.

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SECTION 2

SYSTEM SUMMARY

- 2.1 SYSTEM APPLICATION. The Personnel Readiness Indicator Model (PRIM) provides information to force planning personnel on the personnel readiness of units or unit aggregations based on projected personnel fills. With this information, the force planner can form a judgment as to the adequacy of the fill with respect to the capacity of an individual unit to carry out its mission or the capacity of groups of units to contribute to the force readiness. These judgments, combined with knowledge of today's force, is applicable to decisions on changing unit fill priorities, accessioning requirements, training or retraining needs, and offering or reducing reenlistment enticements. Of especial use is the capability to simulate changes to personnel fill policies such as percentage fill goals and fill priorities. This simulation provides MILPERCEN the capability to better evaluate the long-term results of personnel assignment policies which provide for minimum or maximum percentages of authorizations or for differing fill priorities among units or groups of units. Since policies can be evaluated prior to implementation, unrealistic fill goals or policies that would cause undue perturbation can be identified and reexamined before the assignment system would be required to actually assign people using them. In any desired manner, the user develops the projected personnel inventories as a set of summary information of the total number of people that will be available in each grade of all or some of the MOS/SC; develops the projected jobs by UIC, MOS/SC and grade; defines the appropriate unit aggregations; translates the personnel assignment policies to the computer-readable formats that are required for the Policy file and the Value file; and develops the set of data needed for the Parameter file. The files that control the PRIM processing, ISSUE, Parameter, Policy, Report Request, and Value files are described in Appendix B. User-defined Files. PRIM aggregates all data to the user-defined aggregated levels, assigns the inventory to the jobs using the priorities established in the Policy and Value file, assigns personnel not used in the first assignment to jobs not filled, and reports both detailed and summary information for ISSUEs, MOS, and grade levels which give the user the information needed to develop new policies or to evaluate present and proposed policies.
- **2.2 SYSTEM OPERATION.** PRIM is a decision aid for the force plans officer at MILPERCEN. PRIM provides information which aids the evaluation of critical personnel issues such as:
 - What is or will be the personnel readiness of Army units or unit aggregations such as divisions?
 - How well can the Army assignment system satisfy stated personnel assignment policies and priorities?
 - Will projected accessioning and training plans enhance or decrement Army readiness?

- 2.2.1 System Input and Output. As shown in Figure 2-1, PRIM input consists of six data sets. Although the formatted readiness reports were designed to be the major PRIM outputs, the Readiness files are formatted for printing when more detail is desired. A short description of each input file will be found below. File descriptions will be found in Appendix A. Detailed discussion of the control files (ISSUE Definition, Policy, Parameter, and Value) is in Appendix B, User-defined Files.
- a. Projected Inventory. PRIM uses one input for the personnel inventory data which may contain data for enlisted, officer, or warrant officer projections. Alternatively, PRIM can handle a consolidation of data for all three types of personnel. At the time of PRIM development, MILPERCEN plans for developing this input included consolidation of enlisted projected personnel inventory from the P3M Model, the officer projected personnel inventory from the OFIP, and the warrant officer projected personnel inventory from the WOFIP. All of these data are the total number of personnel by MOS or SC and grade expected to be in the Army at some future date. This file is named the Number-of-People file; the file number is 21.
- b. Projected Jobs. The jobs input to PRIM are described by MOS or SC, grade, and UIC. Any number less than or equal to nine of MOS characters may be specified in the input; the user specifies the number of characters that should be used by parameters in the Parameter file. There is a separate input for number of characters for enlisted MOS, warrant officer MOS, and officer SC. Current plans are that this input will be extracted from the AUDB. The file name is MOS-data, and the number is 8.
- c. ISSUE Definition File. This is the unit aggregation specification. The user develops this to respond to the particular type of questions that needs to be answered. For instance, the example ISSUE Definition file used in Appendix B would allow the force plans officer to respond to questions concerning divisions, CONUS installations, or MACOM totals. Other Army ISSUEs could cause redefinition in this file. An example is, "How does the personnel readiness of units that are equipped with equipment type A compare with units equipped with equipment type B or C?" This file is numbered 14.
- d. Policy File. Personnel assignment policies that are stated in terms of minimum or maximum percent fill for specified grade levels or grade aggregations, and are explicit as to Army ISSUE or MOS, are entered in this file. Allowed aggregate levels are the individual ISSUE or the highest aggregate level. See the description for file 91.
- e. Value File. The user enters a minimum percentage fill and a maximum percentage fill and an associated value for each percentage for every defined ISSUE. This is the user's method of assuring that every ISSUE receives at least some minimum fill while some ISSUEs may be filled beyond their actual authorizations. The Value file is numbered 19.

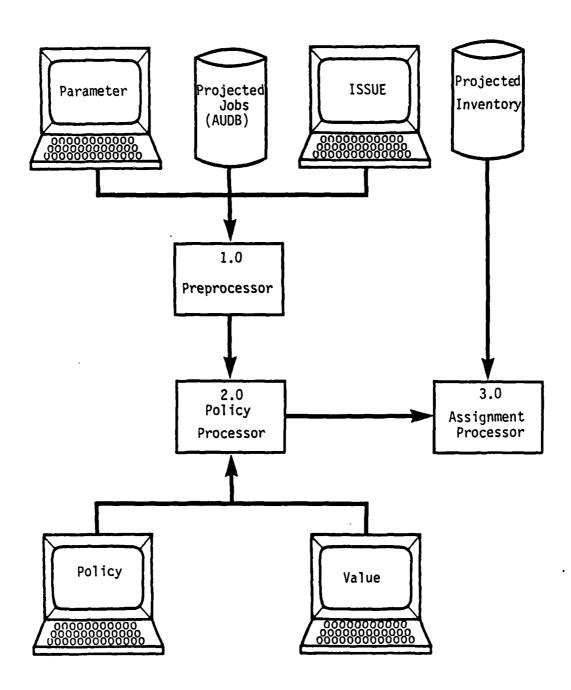


Figure 2-1. PRIM Inputs

- f. Parameter File. Rather than a different set of input data for every module, all of the miscellaneous variables that are needed in the programs are defined in this file. Since many programs need the same information, one change to this file effectively means changes to inputs of several modules. Data such as date, the grades used in the present run, the correct number of MOS characters, and the percentages for C-ratings are in this file; its number is 17.
- 2.3 SYSTEM CONFIGURATION. The PRIM is resident on the UNIVAC 1100/82 Timesharing Multiprocessing System at the US Army Military Personnel Center (MILPERCEN). The model was developed using the level 10R1 UNIVAC ASCII FORTRAN compiler. The model should remain compatible with later releases of the system software. The PRIM draws significantly on available system main and mass memory resources during execution. As a result, it is necessary to anticipate and schedule the run workload into the overall mix in order to maintain satisfactory throughput. The average amount of core required is shown in Table 2-1.

Table 2-1. PRIM Core and Time Requirements

Process	Function	Size	Time
1.1.1	Roll UIC Data	18.4K	
	Sort	20.9K	
	Separate	15.0K	5-6 hours
1.1.2	Roll MOS Data	23.0K	
1.2	Set ISSUE Code	75.2K	
1.3	Aggregate MOS Data		
2.1	Edit Policy File	25.3K	
2.2A	Set ISSUE/MOS Policies	53.3K	
2.2B	Set MOS Policies	54K	2 hours
2.2C	Set ISSUE Policies	48.7K	
2.3	Set Base Values	49.0K	
3.0	Regular Assignment	107.6K	4-5 hours
4.1	Grade Substitution Assignment	110.0K	15 min to
4.2	MOS Substitution Assignment	110.0K	5 hours
5.0	Readiness	66.9K	User
6.0	Report	54.3K	determined

- **2.4 SYSTEM ORGANIZATION.** The PRIM is divided into six separate freestanding processors that are executed sequentially in a batch environment to produce the final reports. Results of all processors are stored in mass storage files.
- **2.4.1** The first of the processors, the Preprocessor, creates the PRIM data base by rolling the UIC-level assignment information into ISSUE-level information to create the MOS-data file. This information will be required for use as the demands (jobs) in the Assignment Processor after transformation by the Policy Processor.

- 2.4.2 The second sequential processor, the Policy Processor, first edits the Policy file, next applies the specific policies to the MOS-data file, then creates the minimum and maximum fill levels for all other assignments to create the Job Assignment Value file.
- 2.4.3 The third processor, the Assignment Processor, uses the Number-of-People file and the Job Assignment Value file to create the data it requires for generating the personnel assignments.
- **2.4.4** The fourth processor, the Substitute Assignment Processor, assigns excess personnel to unfilled jobs using grade and MOS substitutions.
- 2.4.5 The fifth processor, the Readiness Processor, applies the criteria from AR 220-1 to develop the readiness measures and computes additional indicators for use by MILPERCEN.
- 2.4.6 The final processor, the Report Processor, produces the formatted reports chosen by the user.

2.5 SYSTEM PERFORMANCE

- 2.5.1 Input. The major computerized inputs for PRIM are unit information such as that contained in the header record of the AUDB (also see Appendix A, File Descriptions for file number 22) and information on available jobs within the units such as that contained in the detail record of the AUDB (see file number 8 in Appendix A). The user also prepares four small disk files which are used for the table-driven logic. These files are the ISSUE Definition file, Parameter file, Policy file, and Value file. Detailed instructions for these files may be found in Appendix B, User-defined Files. File descriptions in Appendix A are files numbered 14, 17, 19, and 91.
- 2.5.2 Output. Fourteen run diagnostic reports are printed, one for each separate module. These reports provide for monitoring the data assembly or assignment processing, and includes outputs such as a list of UICs that are included in each ISSUE and a list of MOS in each ISSUE. These are discussed in Section 3.4. Nine of these reports will provide the number of errors found but not the list of errors. The user may elect to view the error messages by reading file 13, Error Print file, or sending it to the main printer. In addition to the 14 run diagnostic reports, one of which is printed by each module or subprocessor, there are 11 user-selectable formatted readiness reports printed by the Report Processor; the user selects the readiness reports via the Report Request file, file 93. In addition, if the detailed readiness information is desired, the Readiness files (files 64-67, 70, 72, 73, and 74) have been formatted for printing. The formatted readiness reports are further described in Section 3.3.
- 2.5.3 Limitations. The limitations which are most important to the user are that the maximum number of MOS and SC in one ISSUE is 676, and the maximum number of ISSUEs that may be defined is 300. Other less significant limitations are shown in Table 2-2, Maximum Values, or Appendix B, User-defined Files.

Table 2-2. Maximum Values

Number of pay grades	16
MOS and SC per ISSUE	676
ISSUE definition	300
Maximum assignment value	999
Minimum assignment value	-99
Maximum fill rate	9.99
Number of MOS substitution for one MOS	5
Demand and resource name length	8
Number of demand node names	500
Number of arcs	3,000

2.5.4 Validity. The validity of the PRIM results is dependent upon the correctness of the input data. If either the inventory projection or the job projection is inaccurate, the PRIM results cannot be correct. The policy values and assignment base values will influence the final results; see Section 4 for a detailed description of the model sensitivity to the different types of input parameters. Section 3.5 describes error correction procedures. Also see the PRIM Study Report, CAA-SR-84-5.

2.5.5 Processing Time

- a. Preprocessor. A normal run of the Preprocessor should require 5 to 6 hours, depending upon the number of input units, whether enlisted, warrant officer, and officer data, is input on the same or separate files, whether the unit and job data are input as 6-digit UIC or as 3-digit UIC, and the number of ISSUE definitions.
- **b. Policy Processor.** A normal run of the Policy Processor will require about 2 hours, depending upon the number of MOS per ISSUE and the number of ISSUEs.
- c. Assignment Processor. A normal run of the Assignment Processor will require 4 to 5 hours, depending upon the number of MOS to be assigned, and to a lesser extent, upon the number of ISSUEs that were defined.
- d. Substitute Assignment Processor. The length of time required by this processor is completely dependent upon the number of valid substitutions requested. When either grade or MOS substitution is not needed, the corresponding module should not be run; the corresponding time is, therefore, zero. The general rule is that the minimum amount of time for grade substitution is approximately 15 minutes, depending upon the number of Job Assignment Value records written by the Policy Processor plus approximately 20 seconds for each MOS found on the Unfilled Job file. The MOS substitution requires the same 15 minutes plus a minute for each substitute "for" MOS plus another minute for each MOS substituted from. See Table 2-1 for the time required for the test data.

- e. Readiness Processor. The length of time required by this processor is completely dependent upon the number of job records and level of aggregation. Less than 1 minute is required per MOS.
- f. Report Processor. The length of time required by this processor is completely dependent upon the type and number of reports requested by the user.

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SECTION 3

STAFF FUNCTIONS RELATED TO TECHNICAL OPERATIONS

- **3.1 PREPARATORY PROCEDURES.** Before running the PRIM, it is necessary to create the files needed by the Preprocessor. The UIC-data file is created from the header record of the AUDB. The MOS-data file is created from the detail records of the AUDB. All data must be ASCII for these processors to work. Methodologies for creating the Policy, Parameter, and ISSUE files are in Appendix B. Updates to these files should be made to the elements in the file named PFPRIM-FILES; the elements are moved to files for execution.
- 3.2 PROCESSING SEQUENCE. The PRIM is divided into six separate freestanding processors that are executed sequentially in a batch environment to produce the final reports. Results of all processors are stored in mass storage files. The complete PRIM system consists of 6 program files, 2 runstream files, and 62 data files. Many of the files may be temporary files, and no runstream will require that all files are resident at one time. A complete run of PRIM requires a minimum of 12 separate sequential runs. The user may choose to run these as one long-run string of executions or to run each separately, correcting input errors, and rerunning prior to attempting the next step. The general processing sequence is shown in Figure 3-1. All runstreams are in the file named PFPRIM-RUN.
- **3.2.1 Preprocessor.** The initial processor, the Preprocessor, creates the PRIM data base by rolling the UIC-level assignment information into ISSUE-level information to create the MOS-data file. The Preprocessor contains four main programs and nine subroutines plus utility programs. Figure 3-2 shows the organization of the Preprocessor (all figures for Section 3.2.1 through Section 3.2.6 will be found at the end of Section 3.2). The functions performed by the Preprocessor are:
 - Sort the two large input files and roll or aggregate the UIC-data file and the MOS-data file to the three-digit UIC level; see Figures 3-3 and 3-4.
 - Edit the ISSUE Definition file and set the ISSUE in the UIC-data file and the MOS-data file.
 - Aggregate the MOS-data file to ISSUE level.

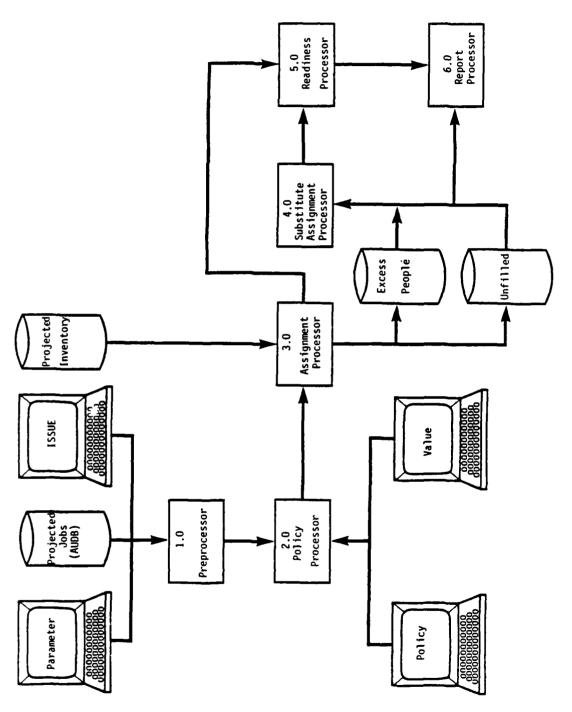


Figure 3-1. PRIM Processing Sequence

a. Roll or Aggregate UIC

- (1) The steps included in this subprocessor are:
- (a) Sort the UIC-data file into UIC-order sorting on characters 2 through 4 only. The options on the @SORT and on the KEY records must match the file type (ASCII or Fielddata); the example is correct for an ASCII file. See the Sperry UNIVAC Series 1100 SORT/MERGE UP-7621 Manual for instructions. This is a standard library item.
- (b) Aggregate the UIC-data file to three-digit UIC level. Output includes a list of all six-digit UICs included in each three-digit aggregation.
- (2) The runstream for this subprocessor, ROLUIC/1-1-1, is shown in Figure 3-5. Once this run has been successfully completed, it need not be repeated unless a new input UIC-data file is created.

b. Roll MOS

- (1) This subprocessor rolls the detail information from the AUDB from the six-digit UIC level to the three-digit UIC level. Steps included in this subprocessor are:
- (a) Sort the input MOS-data file into MOS within UIC order. It is necessary to assure that the options on the @SORT and the KEY= records match the file type (ASCII or Fielddata); the example runstream is correct for an ASCII file. See the Sperry UNIVAC Series 1100 SORT/MERGE UP-7621 Manual for instructions. This is a standard library item.
- (b) Execute 755SEPARATE/1-1-2A to separate the three MOS-data files in preparation for aggregating on the number of MOS characters provided in the Parameter file.
- (c) Execute 755ROLMOS/1-1-2 to aggregate the MOS-data file to three-digit UIC level and to the number of MOS characters specified in the Parameter file.
- (2) If detail data for officer, warrant officer, and enlisted are already in separate files (see file numbers 26, 27, and 28 in Appendix A), or if only one type is to be run, remove the execution of 755SEPARATE/1-1-2A from the runstream. If separate input files are used, the call to the SORT processor will need to be changed to sort all three files instead of file 8.
- (3) This subprocessor is included in the runstream ROLMOS/1-1-2 shown in Figure 3-6. The user should verify that the correct number of each type of detailed MOS-data (officer, warrant officer, and enlisted) has been read and that the correct number of MOS characters was used. Successful completion of this run means that it need not be repeated until a different set of MOS-data is created for use as input.

c. Set ISSUE

- (1) This subprocessor uses the ISSUE file to set the ISSUE code in each UIC-data record. The UIC-data records are then matched with the MOS-data records on the three-digit UIC, and the ISSUE is set in the MOS-data records. The steps included in this subprocessor are:
- (a) Sort the MOS-data file that was output from Process 1-1-2 into MOS within three-digit UIC order. Data must be ASCII for this runstream to run correctly. If the data is not ASCII, then the @SORT portion of the runstream must be changed. See the Sperry Univac Series 1100 SORT/MERGE UP-7621 Manual for instructions. This is a standard library item.
 - (b) Execute 755SETISSUE/1-2 which performs these actions:
 - 1. Set the ISSUEs in the UIC-data file.
- 2. Aggregate the UIC-data file to ISSUE level and provide a list of the UICs included in each ISSUE.
- 3. Match the UICs in the MOS-data file with the UICs in the UIC-data file in order to obtain the ISSUE to insert into the MOS-data file.
- (2) The flow of this subprocessor is shown in Figure 3-7, and the runstream SETISSUE/1-2 is shown in Figure 3-8. After completing this run execution, the user should check the run diagnostic report for indications that all records have had an ISSUE properly attached and that the correct UICs are associated with each ISSUE. If the ISSUE definitions were not satisfactory, a new set of ISSUE definitions may be created in PFPRIM-FILES.ISSUE and the run executed again.
- (a) The sort of file 29 may be removed for additional runs, but it must be present if the previous run, ROLMOS/1-1-2, is rerun.
- (b) It is not necessary, and is a waste of computer resources and analyst time, to repeat the previous runs when a new input data set has not been created.
- (c) In order to perform a quick check of the ISSUE definitions (about one-fourth of the total time), set the debug flag to 10; the program will set the ISSUE in the UIC-data file only and give the error message. If another runstream is made that does not have the sort, it can be used for all but the first run; the time saved without the sort will be 1 to 2 hours on each run; and the time saved with a debug flag of 10 or greater will be about 1 hour each time. Once the ISSUE definitions produce the desired aggregations, set the debug flag to 1 or 2 and run this runstream (without the sort) one final time.

d. Aggregate MOS

- (1) This subprocessor aggregates the MOS-data file to the ISSUE level and creates print files containing information that may be required to ensure the units have been grouped appropriately. The Aggregate Required Strength and the Aggregate Authorized Strength is computed for each ISSUE and across all ISSUEs. The steps included in this subprocessor and shown in Figure 3-9 are:
- (a) Sort the MOS-data file into MOS within ISSUE code. Since this data was output from a program, the sort should be ASCII as in the example.
 - (b) Execute 755AGGMOS/1-3 to aggregate the MOS-data file.
- (2) This subprocessor is included in the runstream AGGMOS/1-3 (Figure 3-10). As before, the user should verify that an appropriate number of records was read and written, the error messages have been corrected, and, in addition, two files formatted for printing will have been created for user verification. Files 85 and 86 contain data aggregated by grade and by MOS within ISSUE and should be checked (file descriptions will be found in Appendix A).
- 3.2.2 Policy Processor. The second processor, the Policy Processor, performs three functions. First, it edits the user-prepared Policy file. Then, it applies the policies to the MOS-data file, rewriting the applicable records with the minimum and maximum fill levels and value to the Job Assignment Value (JAV) file which is needed by the Assignment Processor. Finally, the remaining MOS-data records are rewritten using information from the Value file. The overall organization of the Policy Processor is shown in Figure 3-11.

a. Edit Policy

- (1) The first run, EDIT-POLICY/2-1 edits the input Policy file and prepares a file containing only the Policy statements which pass the initial edit criteria. These include:
 - (a) All ISSUEs must have been previously defined in the ISSUE file.
 - (b) All grades must have been defined in the Parameter file.
 - (c) The low grade must be less than or equal to the high grade.
 - (d) All numbers must pass range tests.
- (e) Minimum percentage fill level must be less than 1.0. If greater than 1.0 and less than 2.0, a warning message will be triggered. If the maximum percentage fill is greater than 2.0 or equal to 9.99, an error message will be issued.
- (2) The flow of this subprocessor is shown in Figure 3-12. The runstream for EDIT-POLICY/2-1 will be found in Figure 3-13.

b. Apply Policies

- (1) The second function of the Policy Processor begins with the run APPLY-POLICY/2-2-A which applies the policies that are stated in terms of both a specific ISSUE and a specific MOS. The flow is shown in Figure 3-14. Steps included are:
- (a) Sort the MOS-data file into MOS within ISSUE order. The sort portion of the runstram was prepared for ASCII data.
 - (b) Execute 755APPPOL/2-2-A which performs these functions.
 - $\underline{\mathbf{1}}$. Create separate policy files for each different policy type.
- $\underline{\mathbf{2}}.$ Create a file containing indicators for each aggregated-ISSUE policy.
- <u>3</u>. Apply the combined ISSUE and MOS Policy file; use the aggregated-ISSUE policy indicators for each Job Assignment Value record created.
- (2) This subprocessor is included in the runstream APPLY-POLICY/2-2-A as shown in Figure 3-15.
- (3) The Policy Processor continues with the run APPLY-POLICY/2-2-B that applies the policies which are stated in terms of a specific MOS, as shown in Figure 3-16. The steps are:
 - (a) Sort the extra job data from the previous step into MOS order.
 - (b) Execute 755APPPOL/2-2-B to apply the MOS Policy file.
- (4) This subprocessor is included in the runstream APPLY-POLICY/ 2-2-B, in Figure 3-17.
- (5) The Policy Processor ends with APPLY-POLICY/2-2-C which applies the policies that are stated in terms of a specific ISSUE; the flow is shown in Figure 3-18. The steps included are:
 - (a) Sort the extra job data from the previous run into ISSUE order.
 - (b) Execute 755APPPOL/2-2-C to apply the ISSUE Policy file.
- (6) This subprocessor is included in the runstream APPLY-POLICY/2-2-C as shown in Figure 3-19.
- c. Set Base Values. The third portion of the Policy Processor is the run SET-BASEVALU/2-3 which sets the minimum and maximum fill levels and values for all MOS-data records which did not previously have a policy applied. The flow of this subprocessor is shown in Figure 3-20, and the runstream SET-BASEVALU/2-3 is shown in Figure 3-21.

- **3.2.3** Assignment Processor. This processor runs ASSIGNMENTS/3 to match the input Number-of-People file with the Job Assignment Value file. This is the "network" program with a preprocessor to transform the Job Assignment Value file to the format required by the network program and a postprocessor to save the output from the network program for use by the Readiness and Report Processors. The organization of this processor is shown in Figure 3-22, and the runstream is in Figure 3-23.
- **3.2.4 Substitute Assignment Processor.** This processor assigns excess personnel to unfilled jobs. This processor consists of two modules--one which assigns using grade substitutions and one which assigns using specialty substitutions. The processing in each module is similar to the other and to the Assignment Processor; the network module is duplicated in each. The flows for this processor are shown in Figures 3-24 and 3-25. The steps included in the Substitute Assignments Processor are:
- a. Run SUBST-GRD1ST/4-1 (Figure 3-26) to perform grade substitutions or SUBST-MOS1ST/4-2 (Figure 3-27) to perform MOS substitutions.
- **b.** Run SUBST-MOS2ND/4-2 (Figure 3-28) to perform MOS substitutions or SUBST-GRD2ND/4-1 (Figure 3-29) to perform grade substitutions.
- **3.2.5** Readiness Processor. The fifth processor applies the criteria from AR 220-1 to develop readiness measures. This processing is accomplished by the runstream READINESS/5. The flow is shown in Figure 3-30, and the runstream READINESS/5 is shown in Figure 3-31.
- **3.2.6 Report Processor.** The last processor creates the formatted output reports. The flow is as shown in Figure 3-32, and the runstream REPORTS/6 is shown in Figure 3-33.

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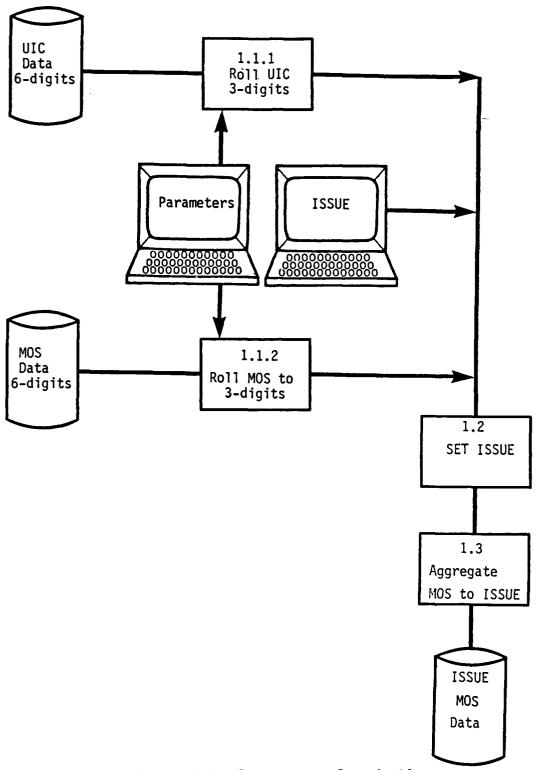


Figure 3-2. Preprocessor Organization

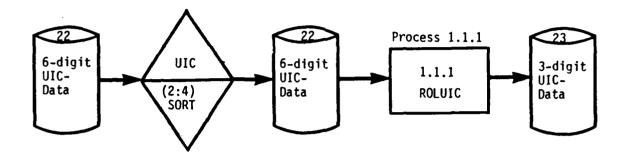


Figure 3-3. Flow of ROLUIC, Process 1.1.1

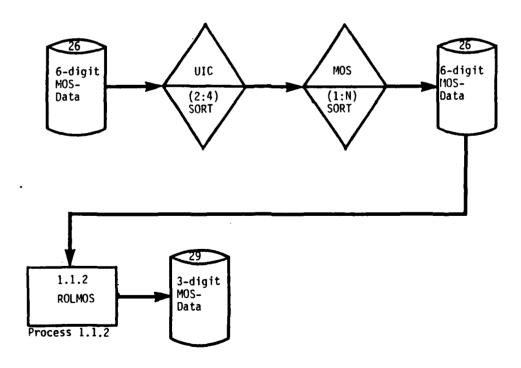
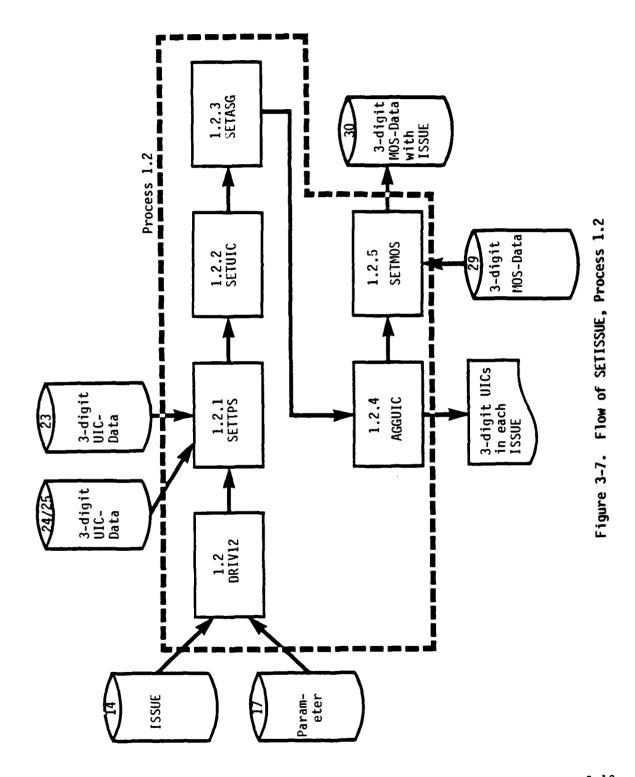


Figure 3-4. Flow of ROLMOS, Process 1.1.2

Figure 3-5. ROLUIC/1-1-1 Runstream

```
FIRST SORT THE FILE ON THE FIRST 4 CHARACTERS OF THE MOS WITHIN
          CHARACTER 2-4 OF UIC. I.E. UIC CHARACTER 2. 3 & 4 IS THE MAJOR
          SORT AND CHAPACTER 1 THROUGH 4 OF MOS IS THE MINOR SORT
          PFINPUTMOS8.
8..PFINPUTMOS8.
XA.,///1000
X8.,///11000
               XB.
PFINPUTHOSB.
                                                             OUTPUT - ERROR MESSAGES
                 PFERROR13.
PFERROR13.
A SG.A
                 PEPARAMETIT.
                                                             INPUT - PARAMETER FILE (MAIN)
A SG . A
                 PFINPUTHOS8.
                                                             INPUT - FIRST INPUT OF MOS DATA
ASG.A
                                                         . OUTPUT - USED TO TEMPORARILY HOLD ENLISTED
                  PFMOS-ENL-26.
ass,A
                  PFMOS-OFF-27.
                                                         . OUTPUT - USED TO TEMPORARILY HOLD OFFICER
ASG.A
                  PF#05-40-28.
                                                        . OUTPUT - USED TO TEMPORARILY HOLD WO
                                                             OUTPUT - ALL MOS DATA ROLLED TO 3-DIGIT UIC LEVEL - MOS HAS ALSO BEEN ROLLED AS SPECIFIED BY THE PARAMETER FILE
 ASĞ.A
                 PEMOSDATA29.
          13..PFERROR13.
17..PFPARAMET17.
50..PFINPUTHOSA.
25..PFMOS-CNL-26.
27..PFMOS-COFF-27.
28..PFMOS-WO-28.
29..PFMOS-WO-28.
                              ERASE THE ERROR-PRINT FILE AND THE INPUT PARAMETER FILE
                             MOVE THE PARAMETER FILE INTO FILE 17 FOR USE NOW
AASG.A
AED
EXIT
AFREE
                 PFPRIM-FILES.
PFPRIM-FILES.PARAMETER, 17.
                 PFPRIM-FILES.
                                         THE PROGRAMS - THIS PROGRAM HAS NO DEBUG FLAG
THIS IS A SET OF TWO SEQUENTIAL PROGRAMS)
FILE 8 IS INPUT TO "SEPARATE", OUTPUT FILES)
ARE 26, 27, AND 28. THESE ARE THE MAIN INPUT)
TO "ROLMOS" AND FILE 29 IS THE OUTPUT)
aasg "A
                                  PFPRIM-485.
FREE
                                  PFPRIM-ABS. 755SEPARATE/1-1-2A
åEÓ.R
                                  PFEPROR13.
P!
Exo T
                                  PFPRIM-ABS.755ROLMOS/1-1-2
         AFTER MOVING TO MILPERCEN THE FOLLOWING STATEMENTS SHOULD BE REPLACED WITH A SYM OF FILE 13 TO THE MILPERCEN PRINTER
R EEEEEEE
            13.
                 PFERROR13.
PFPARAMET17.
PFINPUTHOS8.
PFMOS-ENL-26.
PFMOS-OFF-27.
PFMCS-WO-28.
PFMOSDATA29.
```

Figure 3-6. ROLMOS/1-1-2 Runstream



```
PPIOR RUNSTREAM: ROLMOS/1-1-2
                SORT THE MOS DATA FILE WHICH HAS BEEN ROLLED ON MOS TO 3-DIGIT LEVEL
                SORT MEY IS THE 3-DIGIT UIC
              29.,PFM0SDATA29.
29.,PFM0SDATA29.
XA.,//1000
XB.,//1000
                                           SENSITIVITY TEST FILE IS SMALL - NOT NEEDED RECORD=90
                ASSIGN THE FILES NEEDED FOR "SETISSUE", PROCESSOR 1-2
                                                                                          ERASE THE ERROR PRINT FILE
                   PFISSUE14.
PFISSUE14.
PFPRIM-FILES.ISSUE.PFISSUE14.
                                                                      MOVE THE LATEST COPY OF PARAMETER INTO THE FILE FOR USE
                   PFPARAMETIT.
PFPRIM-FILES.PARAMETER,PFPARAMETIT.
                                     INPUT - 23 IS THE UIC FILE ROLLED TO 3-DIGIT UIC THIS FILE WAS AN OUTPUT FILE FROM THE RUN "ROLUIC/1-1-1"
 AASG,A PFUIC3DIG23.
                                  OUTPUT - 24 & 25 - WORK FILES USED FOR UIC WITH
ISSUE ADDED. EITHER ONE MAY BE
THE FINAL OUTPUT. THE PROGRAM
IDENTIFIES THE FINAL OUTPUT FILE.
 AASG,A PFUICDATA24.
AASG,A PFUICDATA25.
                                 INPUT - 29 - THE MOS DATA ROLLED TO 3-DIGIT UIC AND TO THE NUMBER OF CHARACTERS OF MOS SPECIFIED IN THE PARAMETER FILE (17)
                               OUTPUT - 30 - THE MOS DATA WITH ISSUE CODE ADDED
THIS FILE MUST BE SORTED ON ISSUE AND
MOS PRIOR TO RUNNING THE NEXT PROCESSOR
a SG.A PFMOSDATA3Q.

a USE 13. PFERROR 13.

B USE 14. PFIS SUE 13.

B USE 23. PFUICOATA29.

B USE 24. PFUICOATA29.

B USE 25. PFUICOATA29.

B USE 25. PFMOSDATA29.

B USE 3G. PFMOSDATA3D.
                                                 ATTACH LOGICAL UNIT NUMBERS (LUN) TO THE FILES
                                                     ASSIGN SOME TEMPORARY SCRATCH FILES
ASSG.T

AFREE PEPRIM-ABS.

ACTOR 13.

LNP:

EXIT PERRORIS.

AFREE PERSORIS.

AFREE PEUCODIG23.

AFREE PEUCODIG23.

AFREE PEUCODIG23.

AFREE PEUCODIG23.

AFREE PEUCODIG23.

AFREE PEUCODIG23.

AFREE PEUCODIG23.
                    PFERRORI3.
PFERRORI3.
PFISSUE14.
PFPARAMET17.
PFUICOATA24.
PFUICOATA24.
PFUICOATA229.
PFMOSDATA29.
PFMOSDATA29.
```

Figure 3-8. SETISSUE/1-2 Runstream

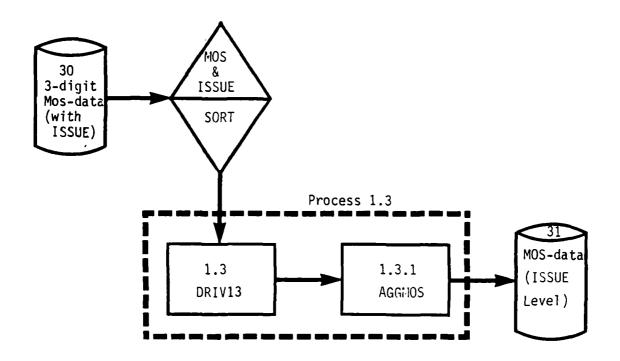


Figure 3-9. Flow of AGGMOS, Process 1.3

```
- - - SORT THE INPUT MOS FILE BY ISSUE AND MOS
 BASG,A
                                                      PFMOSDATA30.
GASG,A PFMOSDATA

GASG,T XA.,//1000
GASG,T XP.,//11000
GSORT,ES
FILEIN=PFMOSDATA30.
FILEOUT=PFMOSDATA30.
KEY=7,445,A
KEY=13,9,5,A
JEOF
                                                                                                                                                                                                        *** FILE MUST BE SORTED! ***
afree XA.
afree XB.
                                                      PFMOSDATA30 .
          . - -
                                                                                                                    - - - ASSIGN THE ERROR PRINT FILE
                                                      PFERROR13.
                                                       PFERROR13.
- - - ASSIGN THE PARAMETER FILE
                                                       PFPRIM-FILES.PARAMETER,PFPARAMET17.
  ₽EU.R
          .
                                                                                                          - - - - INPUT - MOS DATA AT 3-DIGIT UIC LEVEL
  DA SG.A
                                                                                                          --- OUTPUT - MOS DATA AGGREGATED TO ISSUE LEVEL
   BASG , A
                                                                                                                      - - - OUTPUT - ISSUE AGGREGATES & GRADE AGGREGATES
  BASG,A
                                                  ----- OUTPUT - MOS AGGREGATES BY ISSUE
   BASG,A
 PFMOSSTREN86.

3 . PFERRORI3.

3 . PFERRORI3.

3 . PFERRORI3.

3 . PFMOSDATA30.

3 . PFMOSDATA30.

3 . PFMOSSTREN85.

3 . PFMOSSTREN85.

3 . PFMOSSTREN85.

3 . PFMOSSTREN86.

3 . PFMOSSTREN86.

3 . PFMOSSTREN86.

3 . PFMOSDATA30.

4 . PFMOSDATA30.

5 . PFMOSDATA30.

6 . PFMOSDATA30.

7 . PFMOSDATA30.

8 . PFMOSDATA30.

8 . PFMOSDATA30.

8 . PFMOSDATA30.

9 . PFMOSDATA30
                                                       PFMOSSTREN86.
```

Figure 3-10. AGGMOS/1-3 Runstream

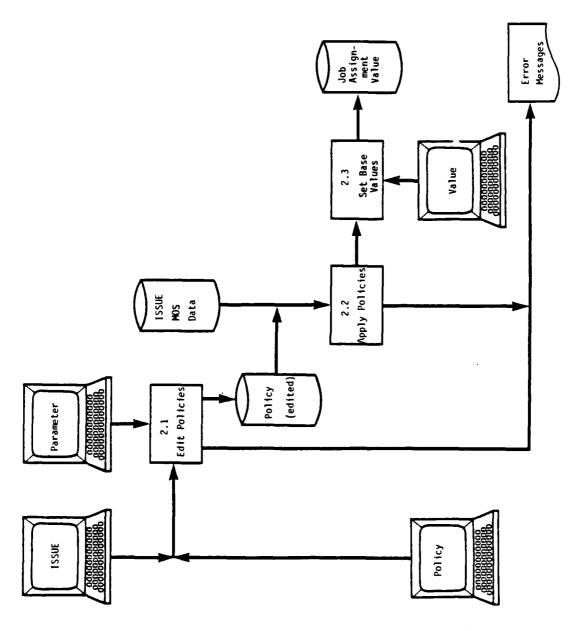


Figure 3-11. Policy Processor Organization

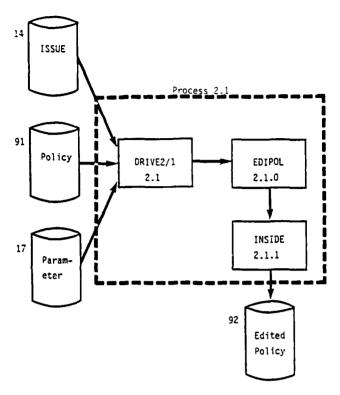


Figure 3-12. Flow of EDIT-POLICY, Process 2.1

Figure 3-13. Edit/Policy/2-1 Runstream

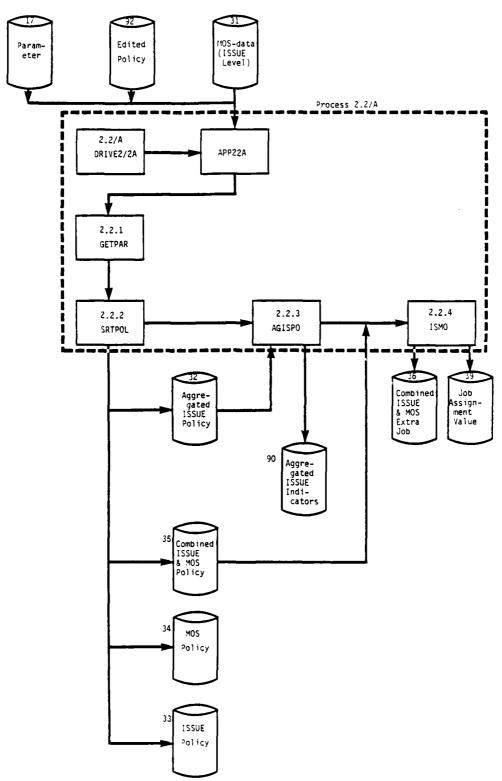


Figure 3-14. Flow of APPLY-POLICY, Process 2.2.A

```
APPLY POLICY/2-2-A APPLY POLICIES TO MOS DATA, PART A APPLY POLICY, 2-2/A APPLY, POLICY, 2-2/A APPLY, POLICY, 2-2/A THIS IS PROCESS 2-2-A (PART A OF A THIS RUNSTREAM IS FOR PAPT
                                    THIS IS PROCESS 2-2-A (PARTA OF APPLY POLICY)
                               THIS RUNSTREAM IS FOR PART A OF THE APPLY POLICY PROCESS (2.2/4)
                            APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE USER MORE FLEXIBILITY. WHEN ERRORS ARE FOUND BY ONE OF THE LATER SUBROUTINES. IT IS NOT NECESSAPILY REQUIRED THAT ALL PARTS ARE REPEATED. WHEN THE POLICY FILE IS CHANGED, AS A RESPONSE TO ERRORS IDENTIFIED BY PART B. THE EDIT POLICY HODULE (PROCESS 2.) MUST BE RERUN. THE USER CAN DO SO IMMEDIATELY RATHER THAN WAIT FOR ALL THE REST OF THE PROCESSOR TO RUN TO COMPLETION.
                                                                                                                                                                                                                                                      (1) I S S U E
                                                                                                                                                                                                               THIS FILE IS AN OUTPUT FROM 1-3
                                                                                  PFMOSISSUE31.
       BASG,A
                                                                   XA.,///400
XB.,///2800
assg, as a second of the control of 
                                                                     PFMGSISSUE31.
        - - -
                                                                                                                      - - - - - - - ASSIGN THE ERROR OUTPUT PRINT FILE
                                                                          PFERRORIS.
PFERRORIS.
----- ASSIGN THE PARAMETER FILE
                                                                           PFPARAMETIT.
PFPRIM-FILES.PARAMETER.PFPARAMETIT.
         EXI
                                                                           PFEDIPOL92.
                                                                                                                                                                                                                   THIS FILE IS AN OUTPUT FROM 2-1
                                                                                                                                                                                                 - ASSIGN THE INPUT JOB FILE - - - - INPUT THIS FILE IS AN OUTPUT FROM 1-3 AND IS SORTED NOW ON ISSUE AND MOS
         A.SG.A
                                                                          PFMOSISSUE 31.
                                                                              - - - - - ASSIGN THE OUTPUT POLICY FILES
                                                                           PFAGISPO32.
PFISSPOL33.
PFMOSPOL33.
PFISMOPO35.
PFAGISINO9O.
PFAGISINO9O.
          ERS
ASG
                                                                                                                                                           - - - - - ASSIGN THE OUTPUT JAV FILE - - - - OUTPUT
                                                      17. PFE RRORI 1 1 1 7 1 3 1 2 1 PF AR A MET 1 7 1 3 1 2 1 PF AR A MET 1 7 1 3 1 2 1 PF AR A MET 1 7 1 3 1 2 1 PF AR A MET 1 7 1 3 1 2 1 PF AR A MET 1 7 1 2 1 PF AR A MET 1 7 1 PF AR A MET 1 7 1 PF AR A MET 1 PF A
            S. . . . . . . . . . . . . . . . ASSIGN TEMPORARY FILE FOR POLICY SORT
            ANGT.F PFPRIM-ABS.755APPPOL/2-2-A
2-0 E B U F L A G
6ED,R PFERRORI3.
```

Figure 3-15. APPLY-POLICY/2-2-A Runstream

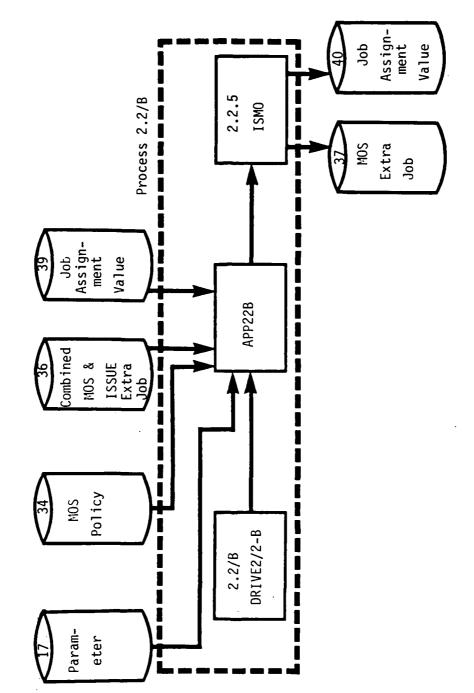


Figure 3-16. Flow of APPLY-POLICY, Process 2.2.8

```
APPLY POLICIES TO HOS DATA, PART B
             APPL YPOL ICY/2-2-B
ğНDБ
apprintages title to apply policy .2-2-8
apprintages title to apply policy .2-2-8
apprintages title to apply policy .2-2-8
a. This is process 2 . 2 . B (part 8 of apply policy)
          THIS RUNSTREAM IS FOR PART B OF THE APPLY POLICY PROCESS (2.2/8)
         APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE USER OUTER FLEXIBILITY. WHEN EPRORS ARE FOUND BY ONE OF THE LATER SUBROUTINES, IT IS NOT NECESSARILY REQUIRED THAT ALL PARTS ARE REPEATED. WHEN THE POLICY FILE IS CHANGED. AS A RESPONSE TO ERRORS IDENTIFIED BY PART B. THE EDIT POLICY MODULE (PROCESS 2.1) MUST BE REFUN. THEN, AS LONG AS CHARGES ARE NOT MADE TO THE TYPE OF POLICIES USED IN PART A. THE USER HAY THEN RETURN TO PART B TO CONTINUE PROCESSING.
                                                                                       HOS ONLY
                                                                        THIS FILE IS AN OUTPUT FROM 2-2A
                           PFISMOEX 36.
asori, Esprishoex 36.
Fileout=PFISHOEX 36.
Fileout=PFISHOEX 36.
REY=13,9,5,4
 åfree
åfree
åfree
                      PFISMOEX36.
XA.
XB.
                                                           - - - ASSIGN THE ERROR OUTPUT PRINT FILE
                                                - - - - - ASSIGN THE PARAMETER FILE
                                                                        ASSIGN THE MOS POLICY FILE ----
THIS FILE IS AN OUTPUT FROM 2-24
                                                                        ASSIGN THE INPUT JOB FILE - - - - INPUT THIS FILE IS AN OUTPUT FROM 2-2A
                                                    ---- ASSIGN THE EXTRA JOB FILE - - - - OUTPUT
                                                                        ASSIGN THE INPUT JAY FILE - - - THIS FILE IS AN OUTPUT FROM 2-2A
                                                        - - - ASSIGN THE OUTPUT JAV FILE - - - - OUTPUT
                                                               - - - ASSIGN TEMPORARY FILES FOR POLICY SORT
 aASG.T XA.,///TO
AASG.T XE.,///TO
CASG.F PEPRIM-ABS.755APPPOL/2-2-B
2-DEBUGFLAG
PFERROR13.
```

Figure 3-17. APPLY-POLICY/2-2-B Runstream

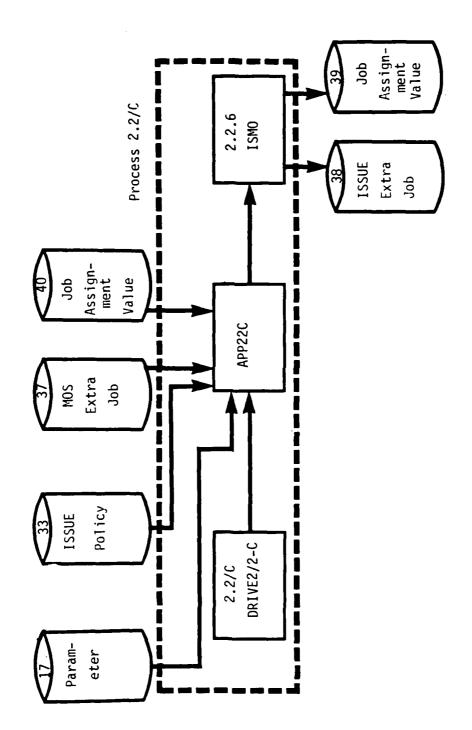


Figure 3-18. Flow of APPLY-POLICY, Process 2.2.C

```
THIS IS PROCESS 2.2.6 (PART C OF APPLY POLICY)
      THIS RUNSTREAM IS FOR PART C OF THE APPLY POLICY PROCESS (2-2-C)
     APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE USER MORE FLEXIBILITY. WHEN EPRORS ARE FOUND BY ONE OF THE LATER SUBROUTINES. IT IS NOT NECESSAPILY REQUIRED THAT ALL PARTS ARE REPEATED. WHEN THE POLICY FILE IS CHANGED, AS A RESPONSE TO ERRORS IDENTIFIED BY PART C. THE EDIT POLICY MODULE SPACESS 2.1) MUST BE REQUIR. THEN, AS LONG AS CHANGES ARE NOT MADE TO THE TYPE OF POLICIES USED IN PART A OR B. THE USER MAY THEN RETURN TO PART C TO CONTINUE PROCESSING.
                                          SORT MOS DATA
                                                 ISSUE ONLY
4.56.V
                                          THIS FILE IS BN OUTPUT FROM 2-28
                 PFHOSEXT 37.
1.38.1
             XA::///2800
 asort.es
asort.es
filein=Pfmosext37.
fileout=Pfmosext37.
ke y=1.4.s.a
ae of
 åfret
åfret
åfret
             PEHOSEXT37.
                              --- - ASSIGN THE ERROR OUTPUT PRINT FILE
          PFERROR13.
PFERROR13.
PFPARAMETIT.
PFPARAMETIT.
PFPRIM-FILES.PARAMETER.PFPARAMETIT.
           THIS FILE IS AN OUTPUT FROM Z-28

AND SHOULD HAVE BEEN SORTED ON ISSUE
BY THE TIME THIS POINT IS REACHED
 A SG .A
              ----- assign the Extra JOB FILE --- - OUTPUT
 THIS FILE IS AN OUTPUT FROM 2-28
               PFJOBASVAL 39. PFJOBASVAL 39.
             - - - - - - DEFINE THE FILE NUMBERS
```

Figure 3-19. APPLY-POLICY/2-2-C Runstream

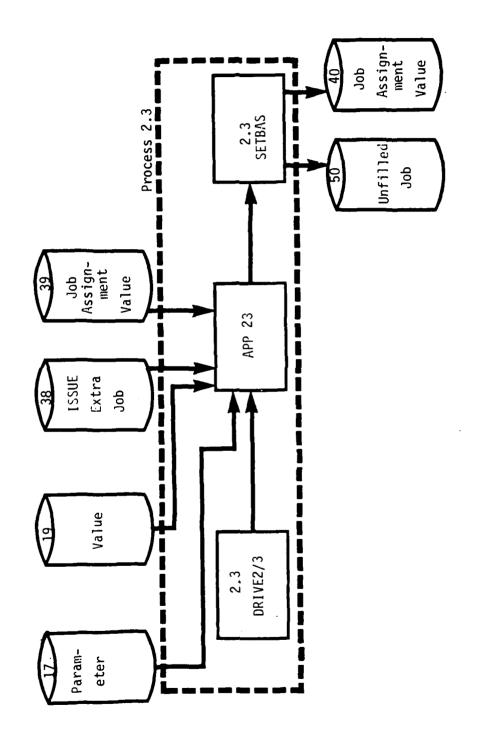


Figure 3-20. Flow of SET-BASEVALU, Process 2.3

```
HDG SET-BASEVALUZ-3 SET BASE VALUES IN REST OF MOS DATA APPERIM-ABS.TITLE SETSBASE.VALUES..2-3
        THIS IS PROCESS 2.3
       THIS RUNSTREAM IS FOR SET BASE VALUE MINIMUMS. MAXIMUMS AND VALUES P R 0 C E S S \frac{1}{2}
                                                    THIS FILE IS AN OUTPUT FROM 2-2-C
                    PFISSEXT38.
               XA ., ///400
XB .. ///2800
               PFISSEXT38.
XA.
XB.
                                         - - - - ASSIGN THE ERROR OUTPUT PRINT FILE
                PFERROR13.
PFERROR13.
PFPARAMET17.
PFPARAMET17.
PFPRIN-FILES.PARAMETER,PFPARAMET17.
                                                    ASSIGN THE VALUE FILE - - - INPUT
                                                   ASSIGN THE INPUT JOB FILE - - - - INPUT THIS FILE IS AN OUTPUT FROM 2-2-C AND IS SORTED NOW ON ISSUE
                 PFISSEXT38.
                                                - ASSIGN THE UNFILLED JOB FILE - - - - OUTPUT
                         - - - - - - - - - ASSIGN THE INPUT JAY FILE - - - -
                                     - - - - - ASSIGN THE OUTPUT JAW FILE - - - - OUTPUT
           13. PFERRORIS.
17. PFPARAMETIT.
19. PFVALUEIS.
18. PFISSEXIS.
19. PFISOBASVAL 40.
5C. PFISOBASVAL 40.
5C. PFUNFILLED 50.
                                     - - - - - ASSIGN TEMPORARY FILES FOR VALUE FILE SORT
a axof, F PFPRIM-ABS.755SETBASE/2-3
1-DE B U G F F L A G
aeo. PFERROR13.
LNP!
             50.
```

Figure 3-21. SET-BASEVALU/2-3 Runstream

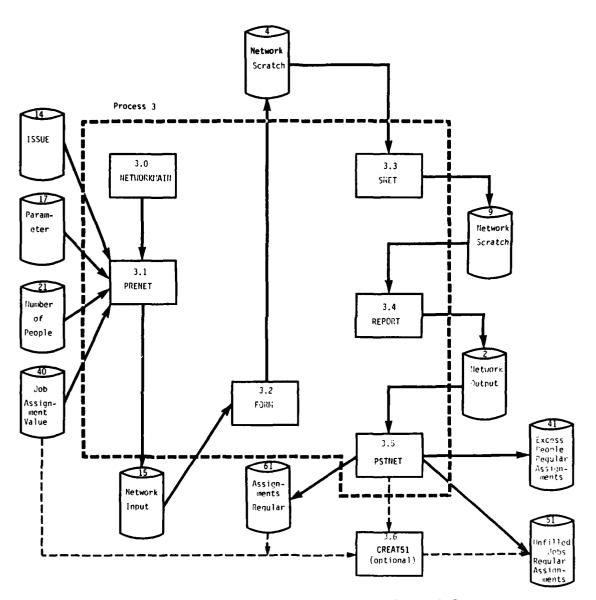


Figure 3-22. Organization and Flow of Assignment Processor

```
BASG.A PFPRIM-ABS. ASSIGNMENT PROCESSOR 3 0
                                                                                                                                                  PFPRIM-FILES.
PFISSUE14.
PFPRIM-FILES.ISSUE, PFISSUE14.
                                                                                                                                                  PFNETINIS.
PFPARAMET17.
PFPRIM-FILES.PARAMETER.PFPARAMET17.
                                                                                                                                            PFNUMBPEOP 21.
PFJOBASVAL 40.
PFEXCPEOP4 1,///5000
PFUNFILLED51,///5000
PFNETUGET ///5000
ASG.T XA..//ZDUU

AASG.T XB..//11000

ASGRT.ES

FILEIN=PFNUMBPEOP21.

FILEOUT=PFNUMBPEOP21.

KEY=9.9.5.A

AFNO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SORT THE INPUT FILES
                                                                                                                                                                                                                                                                                                                                                                                         . SORTED BY MOS
          RE YE 9,9,5,A

BE NO

BE ORT, ES

FILEIN EPFJOBAS VAL 40,

FILEOUTEPFJOBAS VAL 40,

KE YE 10,9,5,A

BE NO

                                                                                                                                                                                                                                                                                                                                                                                          . SORTED BY MOS
                                                                                                                                                                                                                                                                                                                                                                                          . SORTED BY DEMAND NAME
                                                                                                  XA.

ZO PFNETOUTZ

3. PFNETWORKS

4. PFNETWORKS

4. PFNETWORKS

15. PFNETWORKS

15. PFNETWORKS

17. PFNETWORKS

17. PFNETWORKS

17. PFNETWORKS

18. PFNETWORKS

19. PFNETWORKS

19. PFNETWORKS

10. PFNETWORKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASSIGN REST OF FILES
                                                                                                       61., PFASSIGNED 61.
                                                                                                                                                                                                       PFPRIM-ABS.755ASSIGN/3
       axar PFPRIM

aED,R 41.

LNP!

aASG.A PFUNFILLEDSO.

aED,U 51.

ADD PFUNFILLEDSO.

LNP!

aED,R 61.

LNP!

OHI
       AASG T XA..//1100

AASG T XB..//12000

ASG T XB..//12000

FILEIN=PFEXCPEOP41.

FILEOUT=PFEXCPEOP41.

FILEOUT=PFEXCPEOP41.

FILEOUT=PFEXCPEOP41.

FILEOUT=PFEXCPEOP41.

AEXOT ASG T LEDS1.

AEXOT ASG T LEDS1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SORT THE OUTPUT FILES
                                                                                                                                                                                                                                                                                                                                    . SORTED BY HOS
                                                                                                                                                                                                                                                                                                                                              . SORTED BY MOS. . SORTED BY DEMAND NAME
                                                                                                                                                                                                                                                                                                                                    . SORTED BY JOB'S FIRST 4 CHARACTERS
```

Figure 3-23. ASSIGNMENTS/3 Runstream

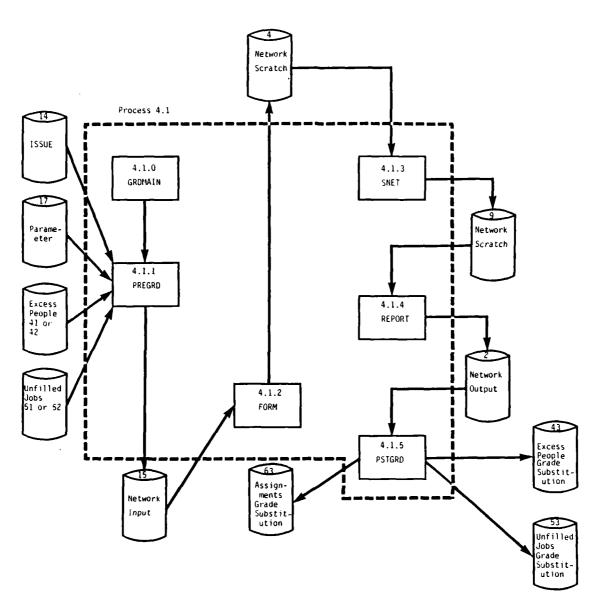


Figure 3-24. Organization and Flow of Grade Substitution Assignment Processor

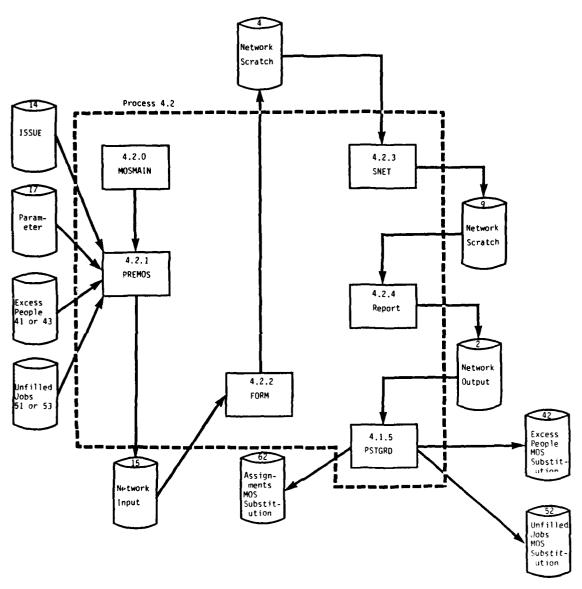


Figure 3-25. Organization and Flow of MOS Substitution Assignment Processor

```
asg.T PFNETOUT2..//1000
asg.T PFNETOUT3..//1000
asg.T PFNETWORKS.
asg.T PFNETWORKS.
asg.T PFNETWORKS.
asg.T PFNETWORKS.
asg.T PFNETWORKS.
asg.A PFNETOURS.
asg.A PFNETOURS.
asg.A PFNETOURS.
asg.A PFNETOURS.
beg.A PFISSUE14.
beg.A PFRISSUE14.
beg.A PFRISSUE14.
beg.A PFRISSUE14.
 ĒŽŪ
                                                          _- - - - - - PARAMETER FILE
 AASG.A PEPARAMETIT.

DED PEPRIM-FILES.PARAMETER.PEPARAMETIT.
 aeo prprim-files.
exi
aasg,a prnumbpeop21.
  AASG.A PFJOBASVAL4O.
AASG.A PFEXCPEOP41.
AASG.A PFEXPEOGRA43.
ADD UNFILLED JOBS FROM POLICY PPOCESSOR TO 51
                                                                                                           SCRATCH FILE, INPUT TO MODEL
PARAMETER FILE
CONTAINS NUMBER OF PEOPLE BY MOS
INPUT JOB FILE
INPUT EXCESS PEOPLE FILE BY MOS
OUTPUT EXCESS PEOPLE FILE BY MOS
INPUT EXCESS PEOPLE FILE BY JOB
INPUT EXCESS JOB FILE - GRADE
OUTPUT JOB ASSIGNMENT FILE
 PED.R 53.
   åÉD,R 63.
ansg.n
ansg.t xA.,///2000
asg.t xR.,///10000
asgrt.es
FILEIN=PFEXPEOGRA43.
FILEOUT=PFEXPEOGRA43.
KEY=1,9,5,A
 FILEOUT=PFEXPEOGRA43.

REY=1,9,5,4

BEND
FILEOUT=PFUNFILLGR53.

REY=10,9,5,4

BEND
BSORT,ES
FILEIN=PFASSIGNGR63.

FILEOUT=PFASSIGNGR63.

FILEOUT=PFASSIGNGR63.

KEY=10,9,5,4

BEND
BFREE XA.

BFREE XA.

BFREE XA.

BFREE 43.

BFREE 43.

BFREE 43.

BFREE 63.
```

Figure 3-26. SUBST-GRD1ST/4-1 Runstream

```
- ASSIGN NETWORK WORKING FILES
AASG,T PENETOUTZ.,///1000
BASC.T PFNETWORKS.
BASC.T PFNETWORKS.
BASC.T PFNETWORKS.
BASC.T PFNETWORKS.
BASC.T PFNETWORKS.
ASG, A PFPRIM-FILES.

ASG, A PFISSUE14.

BED PFPRIM-FILES.ISSUE, PFISSUE14.
 EXI
 a...
aasg,a peparameti7.
aed peprim-files.parameter,peparameti7.
                                                   - - - - - - PARAMETER FILE
EXT

BFREE PFPRIM-FILES.

BASG.A PFJOBASVAL4U.

BASG.A PFEXCPEOP41.

BASG.A PFEXPEOMOS42.

BASG.T PFEXPEOMOS44.
ADD UNFILLED JOBS FROM POLICY PROCESSOR TO 51
                                                                                               SCRATCH FILE, INPUT TO MODEL
PAPAMETER FILE
CONTAINS NUMBER OF PEOPLE BY MOS
INPUT JOB FILE
INPUT EXCESS PEOPLE FILE BY MOS
OUTPUT EXCESS PEOPL FILE BY MOS
SCRATCH EXCESS PEOPL FILE BY MOS
INPUT EXCESS JOB FILE BY JOB
OUTPUT EXCESS JOB FILE BY JOB
SCRATCH EXCESS PEOPL FILE BY MOS
OUTPUT JOB ASSIGNMENT FILE
 OFREE PF
                     PENETHORK9.
 åÉD,R 52.
  ₽ĘD.R 62.
 DEN B2.

DASG.T XA.,//2000

DASG.T XP.,//10000

DSOPT.ES

FILEIN=PFEXPEOMOS42.

KEY=1,9.5.A

DENO

DSORT.ES

FILEOUT=PFUNFILLMO52.

KEY=10.9.S.A

DENO

DSORT.ES

FILEOUT=PFUNFILLMO52.

KEY=10.9.S.A

DENO

DSORT.ES

FILEOUT=PFASSIGNMO62.

KEY=10.4.S.A

DENO

DFREE

XA.
                         XA.
XF.
```

Figure 3-27. SUBST-MOS1ST/4-2 Runstream

```
ASG, A PFNETUUTZ.,///1000
ASG, T PFNETWORK4.
BASG, T PFNETWORK8.
BASG, T PFNETWORK9.
BASG, A PFNETINIS.
                                                                                                                                                                                                                                                            - ASSIGN NETWORK WORKING FILE?
                                                                                                                                                                                                                - - - - ISSUE FILE
    ASG.A PFISSUE14.
BED PFPRIM-FILES.ISSUE,PFISSUE14.
    EXI
                                                                                                                                                                                                         - - - - PARAMETER FILE
    BASG.A PEPARAMETIT.
PFPRIM-FILES.PARAMETE

PFPRIM-FILES.PARAMETE

PFPRIM-FILES.PARAMETE

PFPRIM-FILES.PARAMETE

PFPRIM-FILES.PARAMETE

PFPRIM-FILE

PFPRIM-FILE

PFEX.PECOMOSOSA444.

PFEX.PECOMOSOSA444.

PFEX.PECOMOSOSA444.

PFEX.PECOMOSOSA444.

PFEX.PECOMOSOSA444.

PPFRIM-FILE

PFRIM-FILE

PFRIM-FILE

PFILES.PARAMETE

PFILES.PARAM
    ã E D
                                                              PFPRIM-FILES.PARAMETER,PFPARAMET17.
    EXI
                                                                                                                                                                                                                                                                                          SCRATCH FILE, INPUT TO MODEL
PARAMETER FILE
CONTAINS NUMBER OF PEOPLE BY MOS
INPUT JOB FILE
OUTPUT EXCESS PEOPL FILE BY MOS
OUTPUT EXCESS PEOPL FILE BY MOS
SCRATCH EXCESS PEOPL FILE BY MOS
OUTPUT EXCESS JOB FILE BY JOB
OUTPUT UNFILLED JOB FILE - GRADE
SCRATCH EXCESS PEOPL FILE BY MOS
OUTPUT JOB ASSIGNMENT FILE
       DED R
                                                  42.
      DÉD,R 52.
      ĕĒD,R 62.
    PI

BASG,T XA.,//2GOO

BASG,T XE.,//1DOOD

BSORT,ES

FILEIN=PFEXPEOMOS42.

FILEOUT=PFEXPEOMOS42.

REY=1,9,S,A
    RETTI,9,5,A
BEND
GSOPT,ES
FILEIN=PFUNFILLMO52,
FILEOUT=PFUNFILLMO52,
KEY=1,9,5,A
KEY=1,9,5,A
BEND
    QEND
QSORT, ES
FILEIN = PFASSIGNMO62.
FILEOUT = PFASSIGNMO62.
KEY=1, 4.5, A
QEND
QFREE XA.
QFREE XE.
```

Figure 3-28. SUBST-MOS2ND/4-2 Runstream

```
AASG,T PFNETWORK4.
BASG,T PFNETWORK4.
BASG,T PFNETWORK4.
BASG,T PFNETWORK9.
BASG,T PFNETWORK9.
                                                            - - ASSIGN NETWORK WORKING FILES
BASG, A PENETINIS.
 PASG.A PFISSUE14.

DED PFPRIM-FILES.ISSUE,PFISSUE14.

EXI
                                                           - - ISSUE FILE
- - - - PARAMETER FILE
                                                             • INPUT EXCESS PEOPLE FILE
• OUTPUT EXCESS PEOPLE FILE
• INPUT UNFILLED JOB FILE
• OUTPUT UNFILLED JOB FILE
                                                                          SCRATCH FILE. INPUT TO MODEL PARAMETER FILE CONTAINS NUMBER OF PEOPLE BY MOS INPUT JOB FILE OUTPUT EXCESS PEOPL FILE BY MOS OUTPUT EXCESS DOB FILE BY GRADE OUTPUT EXCESS JOB FILE BY JOB OUTPUT UNFILLED JOB FILE — GRADE OUTPUT JOB ASSIGNMENT FILE
 aED.R 53.
 BED .R 63.
aend
afree xA.
afree 43.
afree 53.
afree 63.
```

Figure 3-29. SUBST-GRD2ND/4-1 Runstream

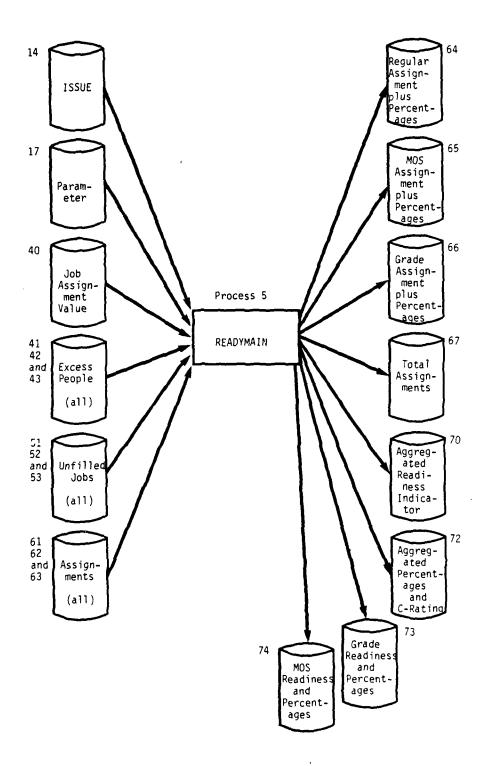


Figure 3-30. Organization and Flow of Readiness Processor

```
#HDG READINESS/5 READINESS PROCESSOR 5 DATITLE READINESS,55-50,READINESS,PROCESSOR
       THIS RUNSTREAM EXECUTES THE READINESS PROCESSOR
                       -----
                                                  ASSIGN ISSUE FILE
                    PFISSUE14.
PFPRIM-FILES.ISSUE.PFISSUE14.
EXI
                    PFPARAMETIT.
PFPRIM-FILES.PARAMETER.PFPARAMETIT.
EX I
                    PFVALUE19.
PFPRIM-FILES.VALUE.PFVALUE19.
a
Asg,A
                                                       ASSIGN INPUT FILES
                                                       ASSIGN OUTPUT FILES
                                                  ATTACH FILE NUMBERS
               67. PFASSIGNED67.
70. PFISSREADI70.
72. PFISSREADI73.
73. PFGRAREADI73.
74. PFMOSREADI74.
               72.
73.
74.
PFPRIM-A8S.755READINESS/5
                  66.
                  70.
                  72.
                  74.
OMI

DEFREE 65.

DEFREE 67.

DEFREE 72.

DEFREE 73.

DEFREE 73.

DEFREE 73.
```

Figure 3-31. READINESS/5 Runstream

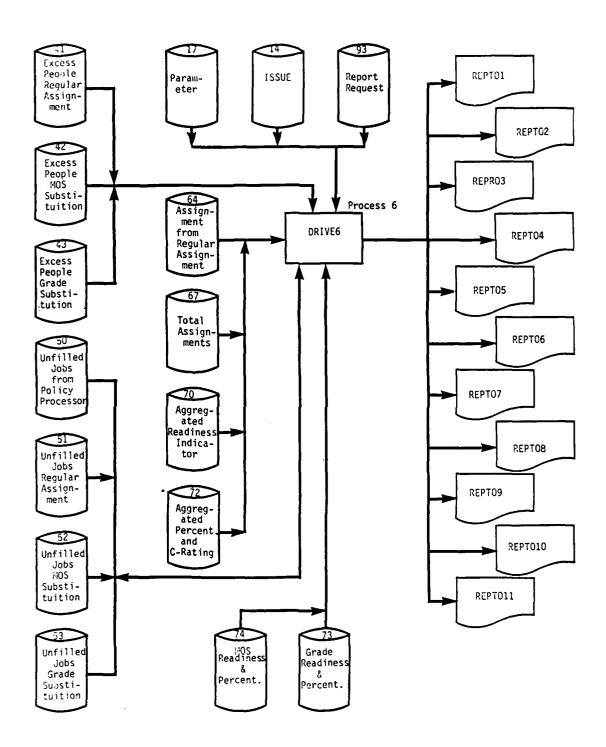


Figure 3-32. Organization and Flow of Report Processor

```
BPFBRIM-ABS.TITLE,D FORMATTED.REPORTS.PROCESS$6.P$RSISM.REPORTS

BPFBRIM-ABS.TITLE,D FORMATTED.REPORTS.PROCESS$6.P$RSISM.REPORTS

BPFBRIM-ABS.TITLE,D FORMATTED.REPORTS.PROCESS$6.P$RSISM.REPORTS

BASG.T XP.,7//500

BASG.T XA.,7//80

BASG.T A., PFERRORIS.

BAS
```

Figure 3-33. REPORTS/6 Runstream

- 3.3 OUTPUT REQUIREMENTS. The output of the PRIM exists in two forms, either hard copy reports or on-line mass storage files. The mass storage files generated by the model will generally not be referenced by the user. The reports, however, make up the primary product of the model and will be used quite frequently. Up to 11 different formatted readiness reports may be generated by the Report Processor. These reports are discussed in detail in Section 3.4, Utilization of System Outputs. In addition to the 11 formatted reports, a run diagnostic report is printed in each runstream output. These reports provide information on the outcome of the run execution. Based on these diagnostic reports, the user decides whether the next runstream should be executed or whether input files should be modified and the previous module(s) executed again.
- **3.3.1 Output Formats.** This subsection would normally contain output file formats. Since the primary outputs of the PRIM are reports and not files, this section is not applicable to the system. However, some output files are created, and a brief description of each is included below, and all file formats may be found in Appendix A, File Descriptions.
- a. Network Output File. This file is created by the network program to pass information on assignments made to the other programs. This file is binary and cannot be looked at using the @ED processor, nor can it be printed without a special program. See Table A-1 for the file identification of file number 2.
- **b.** Error Print File. This file is created by the Preprocessor, Policy Processor, and Report Processor and is an alternate print file on mass storage. See Table A-1 for the file identification of file number 13.
- c. MOS-data (three-digit and ISSUE Files). These files are aggregations of the six-digit MOS-data file, first at the three-digit UIC level, then at the ISSUE level. All pay grades are combined, and similar records are combined so that the final MOS-data file contains one record for each unique combination of ISSUE and specialty. See Table A-1 for the identification of these files, file numbers 29, 30, and 31.
- d. Extra Job Data Files. When the Policy Processor is able to match an input policy with an input MOS record, the data needed by the Assignment Processor is created and written to the Job Assignment Value file. However, the MOS records that cannot be matched to a policy are considered extra or unused job data for that pass. This extra data is written to an extra job data file in a format similar to the MOS-data files for use as MOS-data on the next pass through the Policy Processor. The Value file is applied to the final extra job data file with all unmatched MOS-data written to an Unfilled Job file. See Table A-1 for the identification of mass storage files numbered 36, 37, and 38.
- e. Job Assignment Value Files. Two files are used by the Policy Processor to store job assignment values records which consist of minimum and maximum aggregate assignments desired, and for each grade, the minimum and maximum number of assignments and the value of making these

assignments. These files are used alternately, with the output file on one pass becoming the input file for the next pass. See Table A-1 for the identification of the JAV files numbered 39 and 40.

- f. Excess People Files. This set of files is created as outputs from the Assignment Processor (file 41) and the Substitute Assignment Processor (files 42 and 43), then as inputs to the Readiness Processor and Report Processor. See Table A-1 for the identification of files numbered 41 through 44.
- g. Unfilled Jobs File. This set of files is first created as outputs from the Policy Processor (file 50) and the Assignment Processor (file 51). These are then used as input to the Substitute Assignment Processor which creates files 52, 53, and 54 These are input to the Readiness Processor and to the Report Processor. See Table A-1 for identification of mass storage files numbered 50 through 54.
- h. Assignment Files. These files are first created from the Assignment Processor (file 61) and the Substitute Assignment Processor (files 62 and 63). These are then used as input to the Readiness Processor. See Table A-1 for identification of mass storage files 61 through 63.
- i. Readiness Indicator Files. This set of files contains outputs from the Readiness Processor for use in formatted readiness reports. Files numbered 64 through 67 contain the detail data for each MOS and grade in every ISSUE. Files numbered 70 and 72 are readiness data aggregated to ISSUE level; file 73 contains the readiness data for each grade level in each ISSUE, aggregated across all MOS; and file 74 contains the readiness data for each MOS in each ISSUE, aggregated across grades. See Table A-1 for identification of mass storage files 64 through 67, 70, 72, 73, and 74.
- j. Aggregated-ISSUE Indicator File. This is an interim file produced by the Policy Processor. It contains the Aggregated-ISSUE policies converted to the flags that are used within the Policy Processor. See Table A-1 for the identification of mass storage file 90.
- **k. Policy Files.** The Policy file is created by the user and edited by the Policy processor by comparing data from the Parameter and ISSUE Definition files with the input Policy file. The Edited Policy file is written to file 92. See Table A-1 for the identification of mass storage files 91 and 92.
- 3.3.2 Sample Outputs. PRIM produces two types of printed outputs. The first type is the formatted readiness reports, which were described in the Functional Description and which were designed to provide the readiness indicators, number of people assigned to each job, and relevant ratios such as available personnel divided by required personnel. These are fully described in the following section. The second report type is the run diagnostic report. These reports are automatically printed in the runstream and provide the model operator with enough information to make the decision to continue with the next module or to correct errors and repeat the last execution.

a. Formatted Readiness Reports. There are 11 different formatted readiness reports possible which may be produced by PRIM. The Report Processor uses the date and valid grade codes from the Parameter file and the files that were output from the Readiness Processor to produce printed-reports that are formatted and labeled for readability. Some readiness reports are produced at the highest aggregated level. Since the Report Processor can be run as frequently as desired, and any number of reports can be requested on each run, the user may request aggregated level readiness reports first, then choose detailed readiness reports for only certain ISSUEs or MOS. See Table 3-1 for a list of the available reports.

Table 3-1. Report Types

Report type	Report subtype	Report name
1		ISSUE Summary Report
1 2 3		Specialty Summary by Aggregated ISSUE
3	ALL	Specialty Summary by ISSUE - All Specialties
	MOS code	Specialty Summary by ISSUE - Specific MOS Only
4		Specialty Summary by Grade
5		Grade Summary by Aggregated ISSUE
4 5 6 7		Grade Summary by ISSUE
/	A. .	High Five Summary by ISSUE
8	ALL	ISSUE Listing - All ISSUEs
9	ISSUE code	ISSUE Listing - Specific ISSUE
10	ALL	C-ratings Excess Personnel-All types
10	ORIGINAL	Excess Personnel from Regular Assignment
	MOS SUB	Excess Personnel from MOS Substitution
	GRADE SUB	Excess Personnel from Grade Substitution
11	ALL	Unfilled Jobs-All types
	ORIGINAL	Unfilled Jobs from Regular Assignment
	MOS SUB	Unfilled Jobs from MOS Substitution
	GRADE SUB	Unfilled Jobs from Grade Substitution

b. Formatted Report Data. Figures 3-34 through 3-44 show sample formats of each report; these figures are located at the end of Section 3. The variable names are printed on the sample reports to help the user determine the meaning of each column; Table 3-2 provides a brief description of each readiness mnemonic; all variables are from files 64 through 74 and file formats are in Appendix A. The formulas used for the variable computations may be found in the PRIM Functional Description or the PRIM Study Report. The Report Request file is the user's interface with the Report Processor. If this file is empty, no formatted reports will be produced. See Appendix A for identification of file 93.

Table 3-2. Readiness Mnemonic Description

	Required	Authorized	Assigned	Available
	Required	Auciloi 12eu	A33 Igiled	Available
Number for a specific MOS & grade	REQSTR	AUTSTR	ASSSTR	AVASTR
% - for a specific MOS & grade	AVPERE	AVPEALL		
Σ - over all MOS for each grade	AGREGR	AGAUGR	AGASGR	AGAVGR
% - over all MOS for each grade	PEREGR	PEAUGR		
Σ - over all grades for each MOS	AGREMO	AGAUMO	AGASMO	AGAVMO
% - over all grades for each MOS	MPERRE	MPERAU		
Σ - over all grades and all MOS	AGGREQ	AGGAUT	AGGASS	AGGAVA
% - over all grades and all MOS &	REASPE REAVPE	AUASPE		
C-rating - aggregate &	REAVC REASC	AUASC		
Σ - over High 5 grades for each MOS	H5REMO	H5AUMO	H5ASMO	H5AVMO
Σ - over High 5 grades & all MOS	H5REAG	H5AUAG	H5ASAG	H5AVAG
% - over High 5 grades & all MOS	H5REPE	H5AUPE		
Σ - over senior grades & all MOS	AGRESE	AGAUSE	AGASSE	AGAVSE
% - over senior grades & all MOS	AVSEPE	ASSEPE		
Σ - correct MOS, all grades & MOS			AGASOK	AGAVOK
% - correct MOS, all grades & MOS	APREOK	APAUOK	•	
C-rating - senior grade	AVSEC			
C-rating - aggregate only	REAVC			
C-rating - based on available	AVASC			
C-rating - based on average MOS	OKMOSC			
C-rating - overall for issue/unit	ISCRAT			
Amount missed goal of MINPER	MISGOR	MISGOA		
Mnemonic Hints:				
REQ & RE = Required AUT & AU = Authorized ASS & AS = Assigned AVA & AV = Available AGG & AG = Aggregated			tage ive Enlist Grades (E	

- **3.3.3 Output Vocabulary.** The relevant output vocabulary was previously presented in Section 3.3.2.b and Table 3-2. Also refer to the Data Dictionary, which is Appendix A of the PRIM Program Maintenance Manual, and to the readiness computations in the PRIM Functional Description.
- 3.4 UTILIZATION OF SYSTEM OUTPUTS. The 14 run diagnostic reports and the 11 formatted readiness reports were described in Section 3.3. In general, the run diagnostic reports should only be used by an analyst who has been trained in use of both the computer system and PRIM. An exception is the list of units that were aggregated into each ISSUE output from process 1.2, which may be useful to a different analyst. The formatted readiness reports have been designed to be used by other analysts with very little explanation of the reports, and no knowledge of the computer system or how to run PRIM would be required.
- **3.4.1** Use of Run Diagnostic Reports. It is very important that the user check each diagnostic report prior to continuing with the next processor. Items that should be considered are:
- **a.** Are the number of records read and written appropriate? In other words, was the correct input file read to the end and did the amount of expected aggregation or policy application occur?
- **b.** Were there any PRIM error messages? If so, was the conscious decision made to continue without correction? Refer to Appendix C for an explanation of PRIM error messages.
- c. Were there any computer system error messages? If so, it is very likely that at least that runstream will have to be rerun. When runstreams are executed in batch mode, the user is usually very aware of these messages; the abort messages are usually easy to see. Demand-mode execution simply continues with the next control statement after an abort condition. Thus, when a user starts looking at the results of the final execution, errors made in demand-mode are sometimes missed. When multiple runstreams are attached to make one runstream containing multiple executions, prior to studying the final output, the user should start at the top of the output and sequentially verify each interim step.
- **3.4.2 Use of Formatted Readiness Reports.** Rather than produce all of the readiness reports every time, certain summary reports may be produced first, then only those specific ISSUE or MOS readiness reports of particular interest can be printed in a later run. The readiness reports are summarized by type in Table 3-3 and are described below.

Table 3-3. PRIM Readiness Report Summarya

	Detail or Aggregation			
Readiness report name	ISSUE	MOS	Grade	
ISSUE Summary	D	Α	A	
Specialty by Aggregated ISSUE	S	D	Α	
Specialty Summary by ISSUE	D	D	Α	
Specialty Summary by Grade	Α	D	D	
Grade Summary by Aggregated ISSUE	S	Α	D	
Grade Summary by IŠŠUE	D	Α	D	
High Five Summary by ISSUE	D	D		
ISSUE Listing	D	D	D	
C-rating	D	А	Α	
Excess People	N/A	D	D	
Unfilled Jobs	D	D	D	

aD = Detailed; A = Aggregated; S = Semiaggregated

- a. The ISSUE Summary report (Figure 3-34) provides the user with an overall picture of the total assignment set achieved by the input data set. The numbers of personnel and the percentages most frequently used by MILPERCEN are displayed at the ISSUE level and aggregated over all MOS and grades.
- b. The Specialty Summary by Aggregated ISSUE report (Figure 3-35) provides the user with an overall picture of the MOS percentage fills at the second ISSUE aggregation level. The report displays, for each MOS, the number of personnel required, authorized, assigned, and available plus relevant percentages for the aggregated ISSUE level. This report contains the same data as the subtotal lines of the MOS Summary by ISSUE and is much shorter than that report.
- c. The **Specialty Summary by ISSUE** report (Figure 3-36) provides the user with a picture of the fills by MOS for each ISSUE. This report is a more detailed listing of the data from the previous report. It lists every ISSUE for every MOS.
- **d.** The **Specialty Summary by Grade** report (Figure 3-37) provides the user with an overall picture of the MOS and grade percentage fills. It displays a summary over all ISSUEs for each MOS and grade.
- e. The **Grade Summary by Aggregated ISSUE** (Figure 3-38) provides the user with a summary picture of the match between grade requirements and the ability to meet that requirement at the aggregated ISSUE level. This report contains the data shown on the subtotal lines of the following report.

- f. The **Grade Summary by ISSUE** report (Figure 3-39) displays a summary of the fill by grade of each ISSUE and provides the user an overall picture of how well the grade requirements were met for each ISSUE.
- g. The **High Five Summary by ISSUE** report (Figure 3-40) provides the user with a summary of the distribution, by ISSUE, of the highest five enlisted grades. This report is the same as the ISSUE Summary report, except that this report lists only the top five enlisted grades.
- h. The ISSUE Listing report (Figure 3-41) allows the user to answer detailed questions about the fill of each individual ISSUE for every MOS and grade. This report lists summary information for each ISSUE including a high five report, followed by detailed information for every MOS in that ISSUE.
- i. The **C-rating** report (Figure 3-42) allows the user to compare the C-ratings as they will be computed in the field with the personnel distribution criteria used by MILPERCEN. This report displays the MOS C-rating, the senior-grade C-rating, the Aggregate C-rating, and the overall C-rating for every ISSUE.
- j. The Excess Personnel report (Figure 3-43) allows the user to identify those numbers of people by MOS and grade that will require assignment outside their MOS unless action is taken to change the projected inventories. This report can be produced for the original set of assignments or for the number left after either of the substitute assignments.
- **k.** The **Unfilled Job** report (Figure 3-44) allows the user to identify those Army jobs that will not be filled other than by the incorrect MOS and/or grade unless action is taken. This report can be produced for the original set of assignments or for the unfilled jobs after either of the substitute assignments.
- 3.5 RECOVERY AND ERROR CORRECTION PROCEDURES. PRIM was designed as a modular system to facilitate efficient use by the user. Once the Preprocessor has been successfully completed and the PRIM job data base has been written, there is no need to rerun any of the four Preprocessor modules unless there is a hardware failure which destroys the MOS-data file. Similarly, once the original assignments have been successfully made according to the desired policies, different versions of substitution assignments can be tested without repeating any of the first three processors. Finally, additional reports may be printed without repeating the previous processors.
- **3.5.1 CPU Failures.** In the event of an overall computer system failure, the module run which was in progress must be rerun.

3.5.2 Data File Failures

- **a.** If a system component failure results in loss of the PRIM data files, it will be necessary to rerun the processor responsible for creating the lost file.
- **b.** The number of tracks provided by the system default is 128; in general, PRIM files must be much larger. It is usually preferable to allow more tracks than the programs will need; unused space is kept by the computer system and provided in small increments to the using programs.
- c. If the size of the data files vary significantly from the sizes of the files tested, the temporary scratch files, XA and XB that are assigned in many of the runstreams, may be needed to have the number of tracks changed. In general, with smaller files, XB should be about seven times larger than XA. As the size increases, the ratio should increase up to about 11 to 1. The system sort processor sometimes seems to take much longer when the scratch files are too large than it does when they are the correct size. The on-site Sperry representative has tables which show both the size and the multiplication factor needed for various sizes of files.
- **d.** All input files except the Parameter and Report Request files must be sorted at least once. The Policy and ISSUE files are sorted internally by the programs. The UIC-data (file 22), MOS-data (file 8), and the inventory (file 21) must be sorted prior to the first program which uses them.
- e. If the results of the system sort processor are incorrect (sort errors off without good explanation, or seems to finish successfully, but the data is not sorted), verify whether the file is Fielddata or ASCII and check that the option on the call to the sort processor (@SORT) and the KEY definitions specify the correct data type.
- 3.5.3 Model Processor Failures. Provisions exist in the Preprocessor and Policy Processor of the model to test data and user input which would induce abnormal termination of processing. In each instance, the model will generate an error message and terminate processing. It will be necessary for the user to take the action specified in the error message and rerun the section of the processor in which the error was found to ensure successful termination of the model. A complete list of the errors recognized by the Preprocessor and the Policy Processor, an explanation of the condition which causes the error, and an explanation of the result of the error is contained in Appendix C, Error Messages.

ISSUE SUMMARY PAGE 1 PRIM MODEL % % ASSIGN ASSIGN /AUTH / REQ AVAIL / REQ MINIMUM GOAL GOAL ISSUE CODE REQUIRED AUTHORIZED ASSIGNED AVAILABLE PERCENT NUMBER ASSIGN REAVPE AGGASS/ GOAL MINPER* AGGAUT CONUS (OTHER) C00 AGGREQ AGGASS AGGAVA PERMIN AUASPE REASPE AGGAUT ARMY SECR ARMY STAFF CO1 NUMBER TOTAL USAREUR E00 1ST ARM DIV E01 OTHER USAREUR 4TH MECH-EUR 2D MECH-EUR IST MECH-EUR SUBTOTAL TOTAL GRAND TOTAL

Figure 3-34. ISSUE Summary Report

PRIM MODEL	SPECIALTY SUMMARY BY					Page 1
TEST RUN 1	AGGREGATED ISSUE				ASOF 30SEP84	
MOS: 11B000000	REQ	AUTH	ASSIGN	AVAIL	ASSIGN / Auth	AVAIL / Req
CONUS-OTHER EUROPE FORSCOM	AGREMO	AGAUMO	AGASMO	AGAVMO	MPERAU	MPERRE
WESTCOM TOTAL						
MOS: 11E000000						
CONUS-OTHER EUROPE FORSCOM						
•						
WESTCOM TOTAL						

Figure 3-35. Specialty Summary by Aggregated-ISSUE Report

PRIM MODEL	MODEL SPECIALTY SUMMARY							
TEST RUN 1		8	Y ISSUE		ASC	ASOF 30SEP84		
MOS: 11B000000	REQ	AUTH	ASSIGN	AVAIL	ASSIGN / AUTH	AVAIL / REQ		
ADJ GEN CMP SYS CMD	AGREMO	AGAUMO	AGASMO	AGAVMO	MPERAU	MPERRÉ		
TOTAL - CONUS								
FORSCOM FT. BENNING FT. BRAGG FT. CARSON TOTAL - FORSCOM WESCOM								
GRAND TOTAL								

Figure 3-36. Specialty Summary by ISSUE Report

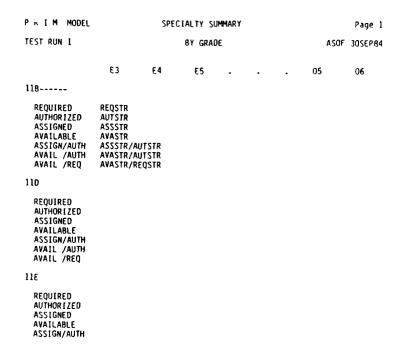


Figure 3-37. Specialty Summary by Grade Report

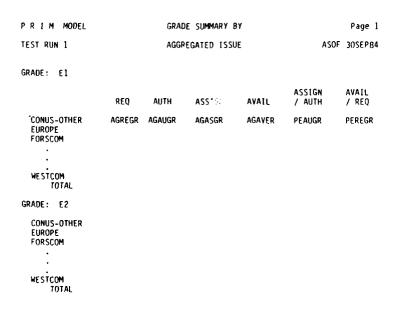


Figure 3-38. Grade Summary by Aggregated ISSUE Report

PRIM MODEL		GRA	DE SUMMARY	ВУ		Page 1
TEST RUN 1			ISSUE		AS	OF 30SEP84
GRADE: E1						
	REQ	HTUA	ASS1GN	AVAIL	ASSIGN / AUTH	AVAIL / REQ
CONUS-OTHER ADJ GEN CMP SYS CMD TOTAL-CONUS	AGREGR	AGAUGR	AGASGR	AGAVGR	PEAUGR	PEREGR
FORSCOM FT BENNING FT BRAGG FT CARSON A B SUBTOTAL = TOTAL -FORSCOM						
WESTCOM GRAND TOTAL						

Figure 3-39. Grade Summary by ISSUE Report

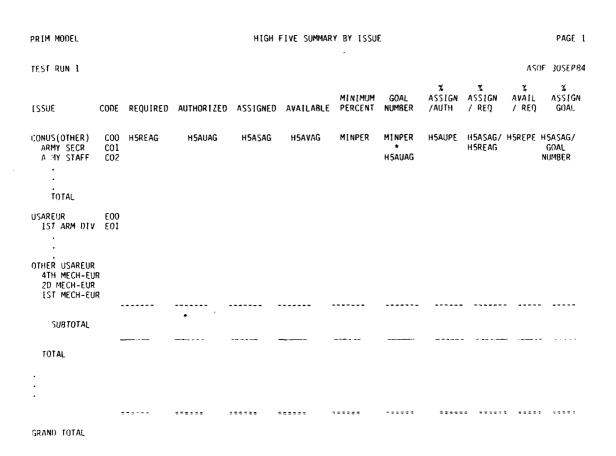


Figure 3-40. High Five Summary by ISSUE Report

PRIM MODEL		I	SSUE LISTING			PAGE
	REQUIRED	AUTHORIZED	ASSIGNED	AVAILABLE	ASSIGN /AUTH	AVAIL /REQ
AGGREGATE	AGGREQ	AGGAUT	AGGASS	AGGAVA	AVASPE	REAVPE
HIGH FIVE	H5REAG	H5AUAG	H5ASAG	H5AVAG	H5AUPE	HSREPE
SENIOR	AGRESE	AGAUSE	AGASSE	AGAV SE	ASSEPE	AVSEPE
El						
E9						
MO	AGREGR	AGAUGR	AGASGR	AEAUGR	REAUGR	PEREG
31						
•						
06						
MOS =			404540	AC 8 VMO	MOCDAU	MPERR
AGGREGATE	AGREMO	AGAUMO	AGASMO	AGAVMO H5AVMO	MPERAU	MECKK
HIGH FIVE	H5REMO	H5AUMO	H5ASMO	UMVACH		
E1 •						
E9	REQSTR	AUTSTR	ASSSTR	AVASTR	ASPEAU	AVPER
		Figure 3-41.	ISSUE Lis	ting Report		
PRIM MO	OEL		C-RATINGS		Р	age 1
TEST RU	IN 1				ASOF 30	SEP84
			SENIOR			
		MOS	GRADE	AVAILABLE	OVERA	ILL
CONU	IS					
ARMY SE ARMY ST USAREC USMA	CRETARY	OKMOSC	AVSEC	REAVC	ISCR	AT
• •						
USAR	REUR					
1ST ARM 3D ARM 8TH INF	DIV					

Figure 3-42. C-rating Report

PRIM MODEL EXCESS PERSONNEL REPORT BY MOS AND GRADE TEST RUN 1									ı	P ASOF 30	age 1 SEP84					
AFTER MOS	SUBSTI	TUTION														
MOS	Εl	E2	E3	E4	E 5	E6	E7	E8	E9	WO	01	02	03	04	05	06
118000000 11000000 11000000 11E000000								NUMEXC								
•																
TOTAL																

Figure 3-43. Excess Personnel Report

PRIM MODEL TEST RUN 1							ED JOB , MOS,								ASOF	Page 1 30SEP84
ISSUE MOS	٤١	ES	E3	E4	E 5	E6	E7	E8	E9	WO	01	02	03	04	05	06
CO1 118000000 CO1 11C000000			3 1	2		1	1		4 1	3 1				3 1	2	
CO2 11B000000 CO2 11C000000			1				1			1				1	2	

Figure 3-44. Unfilled Job Report

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APPENDIX A

FILE DESCRIPTION

- **4.1 FILES.** Table A-1 contains file descriptions for the Personnel Readiness Indicator Model. Following this table are complete formatted file descriptions used in this model. The sequence is the same as the logical unit number used in the programs; the unit file number is provided with each description. Each file is described on a separate page. The column locations, the format (alpha, integer, or real), and record length are provided, and the processor where the file is first used is identified.
- **4.2 DATA NAMES.** The names of the data elements have been standardized; when the same data name is used in more than one file, the name represents the same data. When data names are different from one file to another, they do not represent the same data. For a description of data names, see the PRIM Data Dictionary, Appendix A of the Program Maintenance Manual.

Table A-1. File Identification

Logical unit number	Description	Mass storage name
2	Network Output File	PFNETOUT2
8	Input MOS File	PFINPUTMOS8
13	Error Print File	PFERROR13
14	ISSUE Definition File	PFISSUE14
15	Network Input File	PFNETIN15
17	Parameter File	PFPARAMET17
19	Value File	PFVALUE19
21	Number of People File	PFNUMBPEOP21
22	UIC-data (6-digit level) File	PFUIC6DIG22
23	UIC-data (3-digit level) File	PFUIC3DIG23
24	UIC-data (3-digit with ISSUE added) File	PFUICDATA24
25	UIC-data (3-digit with ISSUE added) File	PFUICDATA25
26	MOS-Enlisted File	PFMOS-ENL-26
27	MOS-Officer File	PFMOS-OFF-27
28	MOS-Warrant Officer File	PFMOS-WO-28
29		
30	MOS-data (aggregated to 3-digit UIC level) File MOS-data (3-digit with ISSUE code added) File	PFMOSDATA29 PFMOSDATA30
31		
32	MOS-data (ISSUE level) File	PFMOSISSUE31
32	Aggregated ISSUE Policy File	PFAGISP032
33 34	ISSUE Policy File	PFISSPOL33
3 4 35	MOS Policy File	PFMOSPOL34
35 36	Combined ISSUE and MOS Policy File	PFISMOPO35
	Combined ISSUE & MOS Extra Job File	PFISMOEX36
3 7 3 8	MOS Extra Job File	PFMOSEXT37
	ISSUE Extra Job File	PFISSEXT38
39	Job Assignment Value File (scratch)	PFJOBASVAL39
40	Job Assignment Value File (final)	PFJOBASVAL40
41	Excess People (from Regular Asignment) File	PFEXCPEOP41
42	Excess People (from MOS Substitution) File	PFEXPEOMOS42
43	Excess People (from Grade Substitution) File	PFEXPEOGRA43
44	Excess People (Scratch) File	PFEXPEOMOS44
50	Unfilled Jobs (from Policy Processor) File	PFUNFILLED50
51	Unfilled Jobs (from Regular Assignment) File	PFUNFILLED51
52	Unfilled Jobs (from MOS Substitution) File	PFUNFILLMO52
53	Unfilled Jobs (from Grade Substitution) File	PFUNFILLGR53
54	Unfilled Jobs (Scratch) File	PFUNFILLED54
61	Assignment (from Regular Assignment) File	PFASSIGNED61
62	Assignment (from MOS Substitution) File	PFASSIGNMO62
63	Assignment (from Grade Substitution) File	PFASSIGNGR63
64	Assignment (from Regular Assignment Plus Percentages) File	PFASSIGNED64
65	Assignment (from MOS Substitition Plus Percentages) File	PFASSIGNMO65
66	Assignment (from Grade Substition Plus Percentages) File	PFASSIGNGR66
67	Total Results	PFASSIGNED67
70	Aggregated Readiness Indicator File	PFISSREADI70
72	Aggregated Percentage and C-Rating File	PFISSPERCR72
73	Grade Readiness and Percentage File	PFGRAREADI73
74	MOS Readiness, Percentage, and C-Rating File	PFMOSREADI74
85	Strength by Grade Print File	PFGRASTREN85
86	Strength by MOS Print File	PFMOSSTREN86
90	Aggregated ISSUE Indicator File	PFAGISIND90
91	Policy File	PFPOLICY91
92	Edited Policy File	PFEDIPOL92
93	Report Request File	PFREPORT93

NETWORK OUTPUT FILE FILE NUMBER 2

Record Length: N/A Storage Medium: Mass Storage Source File: 15

First Use: Output from Assignment Processor, Subroutine SNET

Name	Description	Type
IDIFF	Resource (personnel) or inventory category: points to MOS in (NAMES) array	Binary
IDIFF2	Activity: points to grade in (IACT) array	Binary
IDIFF3	Demand (job identifier): points to job in (NAMES) array	Binary
IDIFF4	Number of people assigned to job	Binary
	People assigned to super job = excess people Super soldiers assigned to job = unfilled job	

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INPUT MOS FILE
FILE NUMBER 8

Record Length: 42 characters Storage Medium: Mass Storage

Source File: N/A

First Use: Input to Preprocessor, Module 1.1.2.1, Separate MOS data

Name	Description	Position	Format
	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Military occupational specialty code	19-27	А9
	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	13
AUSTR	Authorized strength	36-38	13
- -	Filler	39-42	14

ERROR PRINT FILE FILE 13

Record Length: 132 characters Storage Medium: Mass Storage

Source File: N/A

Name	Description	Position	Format
*	Error description	1-132	A-132

 $[\]star$ Each record is variable in length and contains error number and description of error found.

CAA-D-84-3

ISSUE DEFINITION FILE FILE NUMBER 14

Record Length: 62 characters Storage Medium: Mass Storage

Source File: N/A

First Use: Input to Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
	ISSUE=	1-6	A6
ISSUE	ISSUE code	7-10	A4
	ID1=	11-14	A4
ID1	First identification Method Valid entries are: TPSN UIC3 UIC6 ASGMT	15-20	A6
	= sign	21	A1
IDIVAL	First identification method value	22-27	A6
	ID2=	28-31	A4
ID2	Second identification method. Valid entries are: LOCCO STACO ASGMT	32-37	A6
	= sign	38	A1
ID2VAL	Value of second identification method	39-44	A6
	NAME =	45-49	A5
ISSNAM	Name of ISSUE for report purposes	50-62	A12

NETWORK INPUT FILE

FILE 15 Source Files: 21, 40

Created by: PRETEST (3.1), PREMOS (4.1.1), PREGRD (4.2.1)

Note: This file contains six sets of records. Within each set are one to four record types. Records must be input in the following order.

Set one: Demand -- Type 1, 2, 3, and 4

Set two: Demand Sink (Super Jobs) -- Types 1, 2, and 3

Set three: End Demand -- Type 1

Set four: Resource -- Type 1, 2, 3, 4, and 5

Set five: Resource Sink (Super Soldiers) -- Type 1, 2, 3, 4, and 5

Set six: End Resource -- Type 1

MNEMONIC DESCRIPTION

TYPE EXAMPLE

SET ONE: DEMAND RECORDS

-- DEMAND RECORD TYPE ONE

One per Job Assignment Value Record for an MOS

DEMAN Demand node name (job identifier) A8 F01-QEA2

Created by adding two to four alphanumeric characters to the ISSUE code

NSUPST Number of supersets that include this I2

DEMAN

-- DEMAND RECORD TYPE TWO

One for each demand record type one

SUBSET Superset names: US ARMY and MOS

NETWORK INPUT FILE FILE 15, cont.

11A1

8A

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These names are used to link the job (DEMAN) to the available inventory i.e., if the job and the inventory have the same MOS as a super set name (see inventory resource section, record type 2 below), then a link is created

-- DEMAND RECORD TYPE THREE

on each record

	One for each demand record type one	
AGGMIN	Minimum number of people that must be assigned to the DEMAN	110
AGGMAX	Maximum number of people that may be assigned to the DEMAN	110
	DEMAND RECORD TYPE FOUR	
4	One to four for each demand record type one	
GRAMIN	Minimum number of people that must be assigned to this DEMAN; one minimum for each grade	110
GRAMAX	Maximum number of people that may be assigned to this DEMAN; one maximum for each grade	110
	NOTE: These numbers are input as pairs. One GRAMIN and one GRAMAX for the first valid grade, then one GRAMIN and one GRAMAX for the next valid grade, etc., until the number of pairs is equal to NGRADE in the parameter file. Four sets fit	

NETWORK II			
////////	/////////		
SET TWO:	DEMAND SINK		
////////	/////////		
	SINK RECORD TYPE ONE		
	One per valid grade level		
'SINK'	Identifies beginning of sink area ('SINK' is followed by 4 blanks)	A8	SINK
NSUPST	Number of supersets to which the sink belongs	13	
'SJ-xxx'	Name of the super job. For regular assignment, the name is created by concatinating SJ- with the grade code, followed by two blanks. For MOS substitution, the blank is replaced with '-A' or '-F'	A8	SJ-ES SJ-EE5-A
	SINK RECORD TYPE TWO		
	One per superset record type one		
SUPSET	Superset names: grade and MOS The number of names listed must be equal to NSUPST	А8	E6 100A
	SINK RECORD TYPE THREE		
	One per MOS		
MOS	MOS of the super job (will be the same as the MOS of the jobs listed above	A8	11B 54
NUMPEO	The number of people that may be assigned to this super job. The 'PRE' programs set this to the number of people available in the inventory for this grade level and MOS	19	

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NETWO	RK	INPUT	FILE
FILE	15,	cont.	,

VALUE	The value associated with assigning personnel to this imaginary job. The 'PRE' programs set this value to -10	13
VALUE	Same as above	13
NUMPEO	Same as above	19
////////	///////////////////////////////////////	

SET THREE: END DEMAND RECORDS

-- END DEMAND RECORD

One per MOS

'ENDDEM' Signal that the end of the demand

section has been reached

A8 ENDDEM

SET FOUR: RESOURCE

-- RESOURCE RECORD TYPE ONE

One for each MOS

MOS Name of resource (for grade substitution; '-GRADE' is 11B-concatenated to MOS)

NSUPST Number of supersets to which this resource belongs; usually one

NJOBS Number of jobs (ISSUES) to which this MOS can be assigned

NETWORK INPUT FILE FILE 15, cont.

		RESOURCE RECORD TYPE TWO	
SUPSET		Name of Superset (normally MOS) for linking MOS to jobs	A8
		RESOURCE RECORD TYPE THREE	
NUMBEO		Minimum number of people in the aggregate that are available for assignment	I10
NUMPEO		Maximum number of people in the aggregate that are available for assignment; normally equal to NUMBEO	I10
		RESOURCE RECORD TYPE FOUR	
NBYG		Minimum number of people in the aggregate that are available for assignment in the grade	110
NBYG		Maximum number of people in the aggregate that are available for assignment in the grade	110
		RESOURCE RECORD TYPE FIVE	
		One for each possible real job to which this MOS can be assigned	
DEMAND		Job name	A8
GRAVAL		Value associated with job	19
GRAMAX		Maximum number of people by grade that can be assigned to this job	19
	NOTE:	These numbers are input as pairs similar to demand record type four	

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NETWORK INPUT FILE 15, cont.

SET FIVE: SUPER PEOPLE

-- SUPER PEOPLE RECORD TYPE ONE

	One set for each MOS		
'SP'-(MOS)	Name of super people. 'SP' is concatenated to the front of MOS	A8	
NSUPST	Number of Supersets to which this resource belongs	13	NSUPST = 1
NJOBS	Number of jobs requiring this MOS	110	
	SUPER PEOPLE RECORD TYPE TWO		
SUPSET	Name of Supersets (MOS)SUPER PEOPLE RECORD TYPE THREE	A8	
MINPEO	Minimum number of super people that must be assigned (normally zero)	I10	
MAXPEO	Maximum number of super people that may be assigned. The 'PRE' programs set this value equal to the total number of jobs in DEMAN	110	
	SUPER PEOPLE RECORD TYPE FOUR		
	One set for each grade		
MINPEO NETWORK INPUT FILE 15, cont.	Minimum number of super people by grade (zero)	110	

MAXPEO	Maximum number of super people by grade. Usually equal to GRAMAX	110
	SUPER PEOPLE RECORD TYPE FIVE	
	One for each possible job (DEMAN)	
DEMAND	Job name	A8
GRAVAL	Value associated with filling this job with super people	19
MAXNEO	Maximum number of super people by grade (GRAMAX)	19
///////////////////////////////////////	'//////	
SET SIX: END	RESOURCE	
///////////////////////////////////////	///////	
	END RESOURCE RECORD TYPE ONE	
'ENDREC'	Signal that the end of the resource section has been reached	A7

PARAMETER FILE FILE NUMBER 17

Record Length: 66 characters Storage Medium: Mass Storage Use: Input to all modules of all processors Source File: N/A

This file contains three record types.

Name	Description	Position	Format
	(RECORD TYPE 1 - REQUIRED) Mnemonic searched for:	1-6	A6
	ASOF MOSSUB GRDJOB NGRADE SCDSUB NONAVA NCHENL ENLSUB C1VALA NCHOFF OFFSYB C2VALA NCHWOF TYPSTR C3VALA NCCHAR MOSPEO C1VALM MOSJOB C2VALM GRDPEO C3VALM		
 ALPHA	= sign Alphanumeric of 1 to 6 characters, left	7 8 - 13	A1 A6
DESCRI	justified Filler Description	14 15-80	A1 A66
 GRADE	(RECORD TYPE 2 - REQUIRED - GRADE LOCATIONS) Filler Two-character grade designation, the first of these should be the second after NGRADE		A4 A2
IGRADE	= sign Relative location of grade data. If pay grade will not be specifically in the input files, this location should be set to zero	7 8 - 9	A1 I2
DESCRI	Filler Description	10-14 15-80	A5 A66
	(RECORD TYPE 3 - OPTIONAL - SUBSTITUTION INFO	_ •	
FROM	Filler 'GRADE FROM' or ' MOS FROM' or ' SC FROM'	2-11	A1 A10
GRDFRM or MOSFRM	<pre>= sign Grade or specialty the substitution is from</pre>	12 13-21	A1 A9
T0	'GRADE TO' or ' MOS TO' or ' SC TO'	22 - 29 30	A8
GRDTO or MOSTO	Grade or MOS the substitution is to	31-39	A1 A9

VALUE FILE FILE NUMBER 19

Record Length: 62 characters Storage Medium: Mass Storage

Source File: N/A

First Use: Input to Policy Processor, Module 2.3, Set Base Values

Mnemonic	Description	Position	Format
ISSALP	'ISSUE='	1-6	A6
ISSUE	ISSUE code	7-10	A4
	Filler (blank)	11	A1
	'MINIMUM='	12-19	A8
PERMIN	Minimum percentage fill stated as decimal rate	20-24	F5.3
	Filler (blank)	25	Al
	'MINVAL='	26-32	A7
VALUE	Value of filling each job up to minimum percentage	33-35	13
	Filler (blank)	36-38	A3
	'MAXIMUM='	39-46	A8
PERMAX	Maximum percentage fill	47-51	F5.3
	Filler (blank)	52	A1
	'MAXVAL='	53-59	A7
VALUE2	Value of filling each job above the minimum percentage (PERMIN) up to the maximum (PERMAX)	60-62	13

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NUMBER OF PEOPLE FILE FILE NUMBER 21

Record Length: 143 characters Storage Medium: Mass Storage

Source File: N/A

First Use: Input to Assignment Processor, Subroutine PRENET

Name	Description	Position	Format
ASDAT	As of date of data	1-6	16
CMF	Career management field	7-8	A2
MOS	MOS if enlisted data; SC if officer. As of Sep 83, only data for first 3 characters is available; space is provided for all 9	9-17	А9
NE1 NE2 NE3 NE4 NE5 NE6 NE7 NE8 NE9	Number of people available in each enlisted grade of E1 through E7	18-24 25-31 32-38 39-45 46-52 53-59 60-66 67-73 74-80	17 17 17 17 17 17 17 17
NENLIS	Total number of enlisted personnel El through E9	81-87	17
NWO	Total number of warrant officers	88-94	17
NO1 NO2 NO3 NO4 NO5 NO6	Number of officers in grade 01 through 06	95-101 102-108 109-115 116-122 123-129 130-136	17 17 17 17 17
NOFF	Total number of officers in grades O1 through O6	137-143	17

UIC-DATA (6-DIGIT LEVEL) FILE FILE NUMBER 22

Record Length: 97 characters Storage Medium: Mass Storage

Source File: N/A

First Use: Input to Preprocessor Module 1.1.1, Roll UIC data to 3-digit UIC level

Name	Description	Position	Format
••	Filler	I	A1
UIC	UIC code	2-7	A6
	Filler	8-11	A4
COMPO	Component	12	A1
UNTDS	Unit description	13-33	A21
TYPCO	Unit type	34	A1
ASGMT	MACOM or organization	35-36	A2
TPSN	Troop program sequence number	37-41	A5
STAC0	Station code	42-46	A5
STNNM	Station name	47-55	A9
LOCCO	Location code	56-58	А3
STS0FF	Required strength officers	59-62	14
STSWOF	Required strength warrant officers	63-66	14
STSENL	Required strength enlisted	67 - 70	14
STSAGG	Required strength aggregate military	71-74	14
STSCIV	Required strength civilian	75 - 78	14
AUSOFF	Authorized strength officers	79-82	14
AUSWOF	Authorized strength warrant officers	83-86	14
AUSENL	Authorized strength enlisted	87-90	14
AUSAGG	Authorized strength aggregate military	91-94	14
AUSCIV	Authorized strength civilian	95-98	14

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UIC-DATA (3-DIGIT LEVEL) FILE FILE NUMBER 23

Record Length: 97 characters Storage Medium: Mass Storage

Source File: 22

First Use: Output from Preprocessor, Module 1.1.1, Roll UIC data to 3-digit UIC level

Name	Description	Position	Format
UIC COMPO UNTDS TYPCO ASGMT TPSN STACO STNNM LOCCO STSOFF STSWOF STSENL STSAGG STSCIV AUSOFF AUSWOF AUSAGG	UIC code Filler Component Unit description Unit type MACOM or organization Troop program sequence number Station code Station name Location code Required strength officers Required strength warrant officers Required strength enlisted Required strength aggregate military Required strength civilian (set to zero) Authorized strength warrant officers Authorized strength enlisted Authorized strength enlisted Authorized strength aggregate military	1-6 7-10 11 12-32 33 34-35 36-40 41-45 46-54 55-57 58-62 63-67 68-72 73-77 78-82 83-87 88-92 93-97 98-102	A6 A4 A1 A21 A5 A5 A5 A5 I5 I5 I5 I5
LOCCO STSOFF STSWOF STSENL STSAGG STSCIV AUSOFF AUSWOF AUSENL	Location code Required strength officers Required strength warrant officers Required strength enlisted Required strength aggregate military Required strength civilian (set to zero) Authorized strength officers Authorized strength warrant officers Authorized strength enlisted	55-57 58-62 63-67 68-72 73-77 78-82 83-87 88-92 93-97	

UIC-DATA (3-DIGIT WITH ISSUE ADDED) FILE FILE NUMBER 24

Record Length: 97 characters Storage Medium: Mass Storage

Source Files: 23, 25

First Use: Output from Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
UIC	UIC code	1-6	A6
ISSUE	ISSUE code from ISSUE file	7-10	A4
COMPO	Component	11	A1
UNTDS	Unit description	12-32	A21
TYPCO	Unit type	33	A1
ASGMT	MACOM or organization	34-35	A2
TPSN	Troop program sequence number	36-40	A5
STACO	Station code	41-45	A5
STNNM	Station name	46-54	A9
LOCCO	Location code	55 - 57	А3
STS0FF	Required strength officers	58-62	15
STSWOF	Required strength warrant officers	63-67	15
STSENL	Required strength enlisted	68-72	15
STSAGG	Required strength aggregate military	73 - 77	15
STSCIV	Required strength civilian (set to zero)	78-82	15
AUSOFF	Authorized strength officers	83-87	15
AUSWOF	Authorized strength warrant officers	88-92	15
AUSENL	Authorized strength enlisted	93-97	15
AUSAGG	Authorized strength aggregate military	98-102	15
AUSCIV	Authorized strength civilian (set to zero)	103-107	15

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UIC-DATA (3-DIGIT WITH ISSUE ADDED) FILE FILE NUMBER 25

Record Length: 97 characters Storage Medium: Mass Storage

Source File: 24

First Use: Output from Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
UIC	UIC code	1-6	A6
ISSUE	ISSUE code from ISSUE file	7-10	A4
COMPO	Component	11	A1
UNTDS	Unit description	12-32	A21
TYPCO	Unit type	33	A1
ASGMT	MACOM or organization	34-35	A2
TPSN	Troop program sequence number	36-40	A5
STACO	Station code	41-45	A5
STNNM	Station name	46-54	A9
LOCCO	Location code	55-57	A3
STS0FF	Required strength officers	58-62	15
STSWOF	Required strength warrant officers	63-67	15
STSENL	Required strength enlisted	68-72	15
STSAGG	Required strength aggregate military	73-77	15
STSCIV	Required strength civilian (set to zero)	78-82	15
AUSOFF	Authorized strength officers	83-87	15
AUSWOF	Authorized strength warrant officers	88-92	15
AUSENL	Authorized strength enlisted	93-97	15
AUSAGG	Authorized strength aggregate military	98-102	15
AUSCIV	Authorized strength civilian (set to zero)	103-107	15

MOS-ENLISTED FILE FILE NUMBER 26

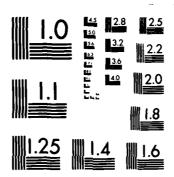
Record Length: 42 characters Storage Medium: Mass Storage

Source File: 8

First Use: Output from Preprocessor, Module 1.1.2.1, Separate MOS Data

Name	Description	Position	Format
	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
~ ~	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Military occupational specialty code	19-27	А9
-~	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	13
AUTSTR	Authorized strength	36-38	13
-~	Filler	39-42	Α4

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CAA-D-84-3

MOS-OFFICER FILE FILE NUMBER 27

Record Length: 42 characters Storage Medium: Mass Storage

Source File: 8

First Use: Output from Preprocessor, Module 1.1.2.1, Separate MOS Data

Name	Description	Position	Format
	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Specialty code	19-27	A9
	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	13
AUTSTR	Authorized strength	36-38	13
	Filler	39-42	A4

MOS-WARRANT OFFICER FILE FILE NUMBER 28

Record Length: 42 characters Storage Medium: Mass Storage

Source File: 8

First Use: Output from Preprocessor, Module 1.1.2.1, Separate MOS Data

Name	Description	Position	Format
	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Specialty code	19-27	A9
	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	13
AUTSTR	Authorized strength	36-38	13
	Filler	39-42	A4

CAA-D-84-3 MOS-DATA (AGGREGATED TO 3-DIGIT UIC LEVEL) FILE FILE NUMBER 29

Record Length: 325 characters Storage Medium: Mass Storage

Source Files: 26, 27, 28

First Use: Output from Preprocessor, Module 1.1.2.2, Roll MOS to 3-digit UIC level

Name	Description	Position	Format
•	Filler	1	A1
UIC26	Characters 2-6 of UIC (5 and 6 are blank)	2-6	A5
	Filler	7-10	A4
CMF	Career management field	11-12	A2
MOS	MOS	13-21	А9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-325	(see below)
GRADE ASI LIC IDENT REQSTR AUTSTR	E1-E9, WO, 01-06 Additional skill identifier Language identification code Person identity (M/F/O & grade) Required strength Authorized strength Filler	(1-2) (3-4) (5-6) (7) (8-11) (12-15) (16-19)	A2 A2 A2 A1 I4 I4

 $\ensuremath{\mathsf{MOS\text{-}DATA}}$ (3-DIGIT WITH ISSUE CODE ADDED) FILE FILE NUMBER 30

Record Length: 325 characters Storage Medium: Mass Storage

Source File: 29

First Use: Output from Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
	Filler	1	A1
UIC24	Characters 2-4 of UIC (5 and 6 are blank)	2-6	A5
ISSUE	PRIM ISSUE code	7-10	A4
CMF	Career management field	11-12	A2
MOS	MOS	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-325	(see below)
GRADE ASI LIC IDENT REQSTR AUTSTR	E1-E9, WO, 01-06 Additional skill identifier Language identification code Person identity (M/F/O & grade) Required strength Authorized strength Filler	(1-2) (3-4) (5-6) (7) (8-11) (12-15) (16-19)	A2 A2 A1 I4 I4

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MOS-DATA (AGGREGATED TO ISSUE LEVEL) FILE FILE NUMBER 31

Record Length: 325 characters Storage Medium: Mass Storage

Source File: 30

First Use: Output from Preprocessor, Module 1.3, Aggregate MOS data to ISSUE level

Name	Description	Position	Format
	Filler	1-6	A6
ISSUE	PRIM ISSUE code	7-10	A4
CMF	Career management field	11-12	A2
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE ASI LIC IDENT REQSTR AUTSTR	E1-E9, WO, O1-O6 Additional skill identifier Language identification code Person identity (M/F/O & grade) Required strength Authorized strength Filler	(1-2) (3-4) (5-6) (7) (8-13) (14-19) (20-23)	A2 A2 A1 I6 I6 A4

AGGREGATED ISSUE POLICY FILE FILE NUMBER 32

Record Length: 80 Storage Medium: Mass Storage Source File: 92

First Use: Output from Policy Processor, Module 2.2A

Name	Description	Position	Format
POLTYP	Policy type='ISSUE'	1-5	A5
	= sign	6	A1
ISSUE	ISSUE code of '00' level	7-10	A4
LOGRAD HIGRAD	'LO=' Lowest grade to which policy applies 'HI=' Highest grade to which policy applies	11-13 14-15 16-18 19-20	A3 A2 A3 A2
AGG	'AG=' 'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	21-23 24-26	A3 A3
VALUE	'VALUE=' Fill value Filler	27-32 33-35 36-38	A6 I3 A3
	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
	'MOS='	57-60	A4
	Blank	61-69	A9
	Filler	70-80	A11

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ISSUE POLICY FILE FILE NUMBER 33

Record Length: 80 Storage Medium: Mass Storage Source File: 92

First Use: Output from Policy Processor, Module 2.2A

Name	Description	Position	Format
POLTYP	Policy type='ISSUE' = sign	1-5 6	A5 A1
ISSUE	ISSUE code	7-10	A4
	'L0='	11-13	А3
LOGRAD	Lowest grade to which policy applies	14-15	A2
UT CDAD	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
	'AG='	21-23	А3
AGG	'YES' if policy is to aggregate	24-26	A3
	'NO ' if policy is not to aggregate		
	'VALUE='	27-32	A6
VALUE	Fill value	33-35	13
	Filler	36-38	А3
	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
	MAX=	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
	'MOS='	57-60	A4
	Blank	61-69	A9
	Filler	70-80	A11

MOS POLICY FILE FILE NUMBER 34

Record Length: 80 Storage Medium: Mass Storage Source File: 92

First Use: Output from Policy Processor, Module 2.2A

Name	Description	Position	Format
POLTYP	Policy type='MOSSC' = sign Blank	1-5 6 7-10	A4 A1 A4
LOGRAD HIGRAD	'LO=' Lowest grade to which policy applies 'HI=' Highest grade to which policy applies	11-13 14-15 16-18 19-20	A3 A2 A3 A2
AGG	'AG=' 'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	21-23 24-26	A3 A3
VALUE	'VALUE=' Fill value Filler	27-32 33-35 36-38	A6 13 A3
PERMIN	'MIN=' Minimum percent fil}	39-42 43-47	A4 F5.3
PERMAX	'MAX=' Maximum percent fill	48-51 52-56	A4 F5.3
MOS	'MOS=' MOS or specialty code Filler	57-60 61-69 70-80	A4 A9 A11

CAA-D-84-3 COMBINED ISSUE & MOS POLICY FILE FILE NUMBER 35

Record Length: 80

Storage Medium: Mass Storage Source File: 92

First Use: Output from Policy Processor, Module 2.2A, Apply Policies (Reread as input to same module)

Name	Description	Position	Format
POLTYP	Policy type='ISSUE'	1-5	A5
	= sign	6	A1
ISSUE	ISSUE	7-10	A4
LOGRAD HIGRAD	'LO=' Lowest grade to which policy applies 'HI=' Highest grade to which policy applies	11-13 14-15 16-18 19-20	A3 A2 A3 A2
AGG	'AG=' 'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	21-23 24-26	A3 A3
 VALUE	'VALUE=' Fill value Filler	27-32 33-35 36-38	A6 I3 A3
	'MIN='	39-42	A4
PERMIN	Minimum percent fill .	43-47	F5.3
	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
MOS	'MOS='	57-60	A4
	MOS or specialty code	61-69	A9
	Filler	70-80	A11

COMBINED ISSUE & MOS EXTRA JOB FILE FILE NUMBER 36

Record Length: 325 characters Storage Medium: Mass Storage

Source File: 31

First Use: Output from Policy Processor, Module 2.2A, Apply Combined Policies

Name	Description	Position	Format
DEMAN	Demand mode name	1-9	A9
	Filler	10	A1
CMF	Career management field	11-12	A2
MOS	Specialty code	13-21	А9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE ASI LIC IDENT REQSTR AUTSTR	E1-E9, WO, O1-O6 Additional skill identifier Language identification code Person identity (M/F/O & grade) Required strength Authorized strength Filler	(1-2) (3-4) (5-6) (7) (8-13) (14-19) (20-23)	A2 A2 A2 A1 I6 I6 A4

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MOS EXTRA JOB FILE FILE NUMBER 37

Record Length: 325 characters Storage Medium: Mass Storage

Source File: 36

First Use: Output from Policy Processor, Module 2.2B, Apply MOS Policies

Name	Description	Position	Format
DEMAN	Demand mode name	1-9	A9
	Filler	10	A1
CMF	Career management field	11-12	
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	below)
GRADE ASI LIN IDENT REOSTR AUTSTR	E1-E9, WO, 01-06 Additional skill identifier Language identification code Person identity (M/F/O & grade) Required strength Authorized strength	(1-2) (3-4) (5-6) (7) (8-13) (14-19)	A2 A2 A2 A1 I6 I6
	Filler	(20-23)	A4

ISSUE EXTRA JOB FILE FILE NUMBER 38

Record Length: 325 characters Storage Medium: Mass Storage

Source File: 37

First Use: Output from Policy Processor, Module 2.2C, Apply ISSUE Policies

Name	Description	Position	Format
DEMAN	Demand mode name	1-9	A9
	Filler	10	A1
CMF	Career management field	11-12	A2
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE ASI LIC IDENT REQSTR AUTSTR	E1-E9, W0, 01-06 Additional skill identifier Language identification code Person identity (M/F/O & grade) Required strength Authorized strength Filler	(1-2) (3-4) (5-6) (7) (8-13) (14-19) (20-23)	A2 A2 A1 I6 I6 A4

CAA-D-84-3 JOB ASSIGNMENT VALUE FILE FILE NUMBER 39

Record Length: 452 characters Storage Medium: Mass Storage

Source Files: 17, 33-38, 90

First Use: Output from Policy Processor, Module 2.2A, Apply Combined Policies

Name	Description	Position	Format
DEMAN	Demand mode name (ISSUE is first 4 characters)	1-9	A9
JMOS	Job MOS	10-18	А9
CMF	Job career management field	19-20	A2
LOGRAD	Lowest grade used in this record	21-22	A2
HIGRAD	Highest grade used in this record	23-24	A2
AGGFIL	Desired aggregate fill	25-30	16
AGGMIN	Minimum aggregate fill	31-36	16
AGGMAX	Maximum aggregate fill	37-42	16
AGGVAL	Value of filling to this aggregate level	43-48	16
GRVAGR	Grade value group - repeats 16 times Included in this designation are:	49-452	16(416)
GRAFIL GRAMIN GRAMAX GRAVAL	Desired fill for this grade (I6) Minimum fill for this grade (I6) Maximum fill for this grade (I6) Value of fill in this grade (I6)		

JOB ASSIGNMENT VALUE FILE FILE NUMBER 40

Record Length: 452 characters Storage Medium: Mass Storage

Source Files: 19, 38, 39

First Use: Output from Policy Processor, Module 2.2B, Apply MOS Policies

Name	Description	Position	Format
DEMAN	Demand mode name (ISSUE is first 4 characters)	1-9	А9
JMOS	Job MOS	10-18	A9
CMF	Job career management field	19-20	A2
LOGRAD	Lowest grade used in this record	21-22	A2
HIGRAD	Highest grade used in this record	23-24	A2
AGGFIL	Desired aggregate fill	25-30	16
AGGMIN	Minimum aggregate fill	31-36	16
AGGMAX	Maximum aggregate fill	37-42	16
AGGVAL	Value of filling to this aggregate level	43-48	16
GRVAGR	Grade value group - repeats 16 times Included in this designation are:	49-452	16(416)
GRAFIL GRAMIN GRAMAX GRAVAL	Desired fill for this grade (I6) Minimum fill for this grade (I6) Maximum fill for this grade (I6) Value of fill in this grade (I6)		

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EXCESS PEOPLE (FROM REGULAR ASSIGNMENT) FILE FILE NUMBER 41

Record Length: Storage Medium: Mass Storage Source File: 2

First Use: Output from Assignment Processor, Subroutine PRENET and PSTNET

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	А9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(16)

EXCESS PEOPLE (FROM MOS SUBSTITUTION) FILE FILE NUMBER 42

Record Length:

Source Files: 2, 44 Storage Medium: Mass Storage

First Use: Output from Substitute Assignment Processor, Module 4.2, MOS Substitution

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	A9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(16)

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EXCESS PEOPLE (FROM GRADE SUBSTITUTION) FILE FILE NUMBER 43

Record Length:

Storage Medium: Mass Storage Source Files: 2, 44

First Use: Output from Substitute Assignment Processor, Module 4.1, Grade Substitution

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	А9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(16)

EXCESS PEOPLE (SCRATCH) FILE FILE NUMBER 44

Record Length: Storage Medium: Mass Storage Source Files: 2, 42, 43

First Use: Scratch file for Assignment Processor

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	А9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(16)

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UNFILLED JOBS (FROM POLICY PROCESSOR) FILE FILE NUMBER 50 $\,$

Record Length: 98 characters Storage Medium: Mass Storage

Source File: 38

First Use: Output from Policy Processor, Module 2.3, Set Base Values

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(16)

UNFILLED JOBS (FROM REGULAR ASSIGNMENT) FILE FILE NUMBER 51

Record Length: 98 characters Storage Medium: Mass Storage

Source File: 2 or 40, 61

First Use: Output from Assignment Processor, Subroutines PRENET and PSTNET

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(16)

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UNFILLED JOBS (FROM MOS SUBSTITUTION) FILE FILE NUMBER 52

Record Length: 98 characters Storage Medium: Mass Storage

Source File: 51, 53

First Use: Output from Substitute Assignment Processor, Module 4.2, MOS Substitution

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	А9
NUMUNF	Number of unfilled jobs by grade	19-114	16(16)

UNFILLED JOBS (FROM GRADE SUBSTITUTION) FILE FILE NUMBER 53

Record Length: 98 characters Storage Medium: Mass Storage

Source File: 51, 52

First Use: Output from Substitute Assignment Processor, Module 4.1, Grade Substitution

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(16)

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UNFILLED JOBS (SCRATCH) FILE FILE NUMBER 54

Record Length: 98 characters Storage Medium: Mass Storage

Source File: 51, 52, 53

First Use: Scratch File for Substitute Assignment Processor

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
MOS	MOS or specialty code	10-18	А9
NUMUNF	Number of unfilled jobs by grade	19-114	16(16)

ASSIGNMENT FROM REGULAR ASSIGNMENT FILE FILE NUMBER 61

Record Length: 43 characters Storage Medium: Mass Storage

Source File: 2

First Use: Output from Assignment Processor, Subroutine PSTNET

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A 9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	А9
	Filler	20	1X
MOSACT	Actual MOS filling demand	21-29	А9
	Filler	30	1X
GRDREQ	Grade required for demand	31-32	A2
	Filler	33	1X
GRDACT	Actual grade filling demand	34-35	A2
	Filler	36	1X
ASSSTR	Assigned strength	37-43	17

CAA-D-84-3 ASSIGNMENT (FROM MOS SUBSTITUTION) FILE FILE NUMBER 62

Record Length: 43 characters Storage Medium: Mass Storage

Source File: 61, 63

First Use: Output from Substitute Assignment Processor, Module 4.2, MOS Substition

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
	Filler	20	1X
MOSACT	Actual MOS filling demand	21-29	A9
	Filler	30	1x
GRDREQ	Grade required for demand	31-32	A2
	Filler	33	1X
GRDACT	Actual grade filling demand	34-35	A2
	Filler	36	1 X
ASSSTR	Assigned strength	37-43	17

ASSIGNMENT (FROM GRADE SUBSTITUTION) FILE FILE NUMBER 63

Record Length: 43 characters Storage Medium: Mass Storage

Source File: 61, 62

First Use: Output from Substitute Assignment Processor, Module 4.1, Grade Substitution

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 5 characters)	1-9	А9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	А9
	Filler	20	1X
MOSACT	Actual MOS filling demand	21-29	А9
~~	Filler	30	1X
GRDREQ	Grade required for demand	31-32	A2
	Filler	33	1X
GRDACT	Actual grade filling demand	34-35	A2
~-	Filler	. 36	1X
ASSSTR	Assigned strength	37-43	17

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DETAILED READINESS INDICATORS
FILE NUMBER 64

Record Length: 68 characters Storage Medium: Mass Storage

First Use: Output from Readiness Processor

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	16
AUTSTR	Authorized strength	29-34	16
ASSSTR	Assigned strength	35-40	16
AVASTR	Available people	41-46	16
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54~60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

Source File: 31, 61

DETAILED READINESS INDICATORS USING MOS SUBSTITUTION FILE NUMBER 65

Record Length: 68 characters Storage Medium: Mass Storage

Source File: 62

First Use: Output from Readiness Processor

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
••	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	16
AUTSTR	Authorized strength	29-34	16
ASSSTR	Assigned strength	35-40	16
AVASTR	Available people	41-46	16
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

NOTE: For File 65, REQSTR, AUTSTR, ASPEAU, AVPEAU, AVPERE equal zero; a matching record in file 64 holds these data.

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DETAILED READINESS INDICATORS USING GRADE SUBSTITUTION FILE NUMBER 66

Record Length: 67 characters Storage Medium: Mass Storage

Source File: 63

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	А9
	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	16
AUTSTR	Authorized strength	29-34	16
ASSSTR	Assigned strength	35-40	16
AVASTR	Available people	41-46	16
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

NOTE: For File 66, REQSTR, AUTSTR, ASPEAU, AVPEAU, AVPERE equal zero; a matching record in file 64 holds these data.

TOTAL RESULTS OF READINESS PROCESSOR MOS SUBSTITUTION FILE NUMBER $67\,$

Record Length: 67 characters Storage Medium: Mass Storage

Source File: 61, 65

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	А9
	Filler	10	1X
MOSREQ	MOS required for demand	11-19	А9
	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	16
AUTSTR	Authorized strength	29-34	16
	Filler	35-40	A6
AVASTR	Available people	41-46	16
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

NOTE: This file is equivalent to the sum of file 61 and file 65.

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AGGREGATED READINESS INDICATOR FILE FILE NUMBER 70

Record Length: 128 characters Storage Medium: Mass Storage

Source File: 40, 61

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
AGGREQ	Aggregate required strength	5-10 11-16	16 16
AGGAUT	Aggregate authorized strength		
AGGASS	Aggregate assigned strength	17-22 23-28	16 16
AGGAVA	Aggregate available strength	23-28 29-34	16 I6
H5REAG	High 5 required aggregate	29 - 34 35-40	16
H5AUAG	High 5 authorized aggregate	41-46	16 16
H5ASAG	High 5 assigned aggregate	47 - 52	16
H5AVAG	High 5 available aggregate		
AGRESE	Senior grade required aggregate	53-58 59-64	I6
AGAUSE	Senior grade authorized aggregate		16
AGASSE	Senior grade assigned aggregate	65-70	16
AGAVSE	Senior grade available aggregate	71-76	16
AGREOK	Correct MOS required aggregate	77 -82	16
AGAUOK	Correct MOS authorized aggregate	83-88	16
AGASOK	Correct MOS assigned aggregate	89-94	16
AGAVOK	Correct MOS available aggregate	95-100	16
NUMPER	MINPER*AGGAUT	101-106	16
MISGOR	NUMPER-AGGREQ	107-112	16
MISGOA	NUMPER-AGGAUT	113-118	16
PERMIN	PERMIN from base Value File	119-122	F4.2
PERMAX	PERMAX from base Value File	123-126	F4.2

AGGREGATED PERCENTAGE AND C-RATING FILE FILE NUMBER 72

Record Length: 80 characters Storage Medium: Mass Storage

Source File: 70

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
	Filler	5	A1
	Percentages		
REASPE REAVPE AUASPE H5REPE H5AUPE AVSEPE ASSEPE APREOK APAUOK	(AGGASS/AGGREQ)*100 (AGGAVA/AGGREQ)*100 (AGGASS/AGGAUT)*100 (H5AVAG/H5REAG)*100 (H5ASAG/H5AUAG)*100 (AGAVSE/AGRESE)*100 (AGAVSE/AGAUSE)*100 (AGAVOK/AGGREQ)*100 (ASASOK/AGGAUT)*100	6-12 13-19 20-26 27-33 34-40 41-47 48-54 55-61 62-68	F7.1 F7.1 F7.1 F7.1 F7.1 F7.1 F7.1
REAVC REASC AUASC AVSEC OKMOSC ISCRAT	C-ratings Based on REAVPE (aggregate) Based on REASPE (aggregate) Based on AUASPE (aggregate) Based on ASEPE (senior grade) Based on APREOK (correct MOS) Overall C-rating. Based on lowest of REAVC. REASC. AUSEC. and MOSC	69-70 71-72 73-74 75-76 77-78 79-80	12 12 12 12 12 12

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GRADE READINESS AND PERCENTAGE FILE FILE NUMBER 73

Record Length: 44 characters Storage Medium: Mass Storage Source File: 40, 61, 65

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
GRADE	Grade code	5-6	A2
AGREGR	Aggregate required over all MOS	7-12	16
AGAUGR	Aggregate authorized over all MOS	13-18	16
AGASGR	Aggregate assigned over all MOS	19-24	16
AGAVGR	Aggregate available over all MOS	25-30	16
PEREGR	(AGAVGR/AGREGR)*100	31-37	F7.1
PEAUGR	(AGASGR/AGAUGR)*100	38-44	F7.1

MOS READINESS, PERCENTAGE, AND C-RATING FILE FILE NUMBER 74

Record Length: 87 characters Storage Medium: Mass Storage

Source File: 40, 61, 63

Name	Description	Position	Format
ISSUE MOS AGREMO AGAUMO AGASMO AGAVMO MPERRE MPERAU H5REMO H5AUMO H5ASMO H5AVMO	ISSUE code MOS or specialty code Filler Aggregate required over all grades Aggregate authorized over all grades Aggregate assigned over all grades Aggregate available over all grades (AGAVMO/AGREMO)*100 (AGASMO/AGAUMO)*100 High five required High five authorized High five assigned High five available	1-4 5-13 14-15 16-21 22-27 28-33 34-39 40-46 47-53 54-59 60-65 66-71 72-77	A4 A9 A2 I6 I6 I6 F7.1 F7.1 I6 I6
C-rat RMOSC AMOSC	ings Based on MPERRE Based on MPERAU	78-79 80-81	12 12

CAA-D-84-3 STRENGTH BY GRADE PRINT FILE FILE NUMBER 85

Record Length: Formated for printer, maximum length = 132 characters Storage Medium: Mass Storage Source Fil Source File: 30

First Use: Output from Preprocessor, Module 1.3, Aggregate MOS-data to ISSUE level

Name	Description	Position	Format
	Filler (carriage space control)	1	A1
ISSUE	ISSUE code	2-5	A4
	Filler	6	1X
AGGREQ	Aggregate required strength	7-15	19
AGGAUT	Aggregate authorized strength	16-24	19
	Filler		2X
GRADE	Pay grade or rank, E1-E9, WO, 01-06	repeated	A2
AGREGR	Aggregate required for grade	as	15
AGAUGR	Aggregate authorized for grade	necessary	15

STRENGTH BY MOS PRINT FILE FILE NUMBER 86

Record Length: Formated for printer - maximum length = 132 characters Storage Medium: Mass Storage Source File: 30

First Use: Output from Preprocessor, Module 1.3, Aggregate MOS data to ISSUE level

Name	Description	Position	Format
	Carriage control	1	1X
ISSUE	ISSUE code	2-5	A4
	Filler	6-8	3X
CMF	Career Management Field	9-10	A2
	Filler	11-13	3X
MOS	Military occupational specialty	14-22	A9
	Filler	23	1X
AGREMO	Aggregate required for MOS	24-31	112
AGAUMO	Aggregate authorized for MOS	32-40	112

CAA-D-84-3 AGGREGATED ISSUE INDICATOR FILE FILE NUMBER 90

Record Length: 405 characters Storage Medium: Mass Storage

Source File: 32

First Use: Output from Policy Processor, Module 2.2 A, Apply Combined Policies

Name	Description	Position	Format
ISSUE	Code for ISSUE. In this file, characters 2-3 = 00 and character 4 = blank or -	1-4	A4
AGIND	Grade aggregations dimension (16, 3) $((I,J), J=1,3), I=1,8)$ $(I,1)=low$ grade $(I,2)=high$ grade $(I,3)=value$ of assignment	5 -76	24(13)
AGPER	Aggregate percentages (I,1) = minimum percent (I,2) = maximum percent	77-156	16(F5.3)
USEGRD	Indicator of inclusion, one per grade dimension (16)	157-172	16(11)
COMPUT	Indicator for individual grade policy dimension (16)	173-188	16(11)
VALGRD	Value of assignment at this grade dimension (16)	189-284	16(16)
PERIND	Percentages for each grade dimension (16, 2) (I,1) = minimum percentage (I,2) = maximum percentage	285-444	32(F5.3)

POLICY FILE FILE NUMBER 91

Record Length: 80 characters Storage Medium: Mass Storage

Source File: N/A

First Use: Input to Policy Processor, Module 2.1, Edit Policy File

Name	Description	Position	Format
POLTYP	Policy type. One of: 'ISSUE' 'MOSSC'	1-5	A 5
	= sign	6	A1
ISSUE	ISSUE code	7-10	A4
	'L0='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
	'HI='	16-18	А3
HIGRAD	Highest grade to which policy applies	19-20	A2
	'AG='	21-23	А3
AGG	'YES' if policy is to aggregate 'NO' if policy is not to aggregate	24-26	А3
	'VALUE='	27-32	A6
VALUE	Fill value	33-35	13
	Filler	36-38	Ä3
	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
	'MAX='	48-51	A4
PERMAX		52-56	F5.3
	Maximum percent fill		
	'MOS='	57-60 61-60	A4
MOS	MOS or specialty code	61-69	A9
	Filler	70-80	A11

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EDITED POLICY FILE
FILE NUMBER 92

Record Length: 80 characters Storage Medium: Mass Storage

Source File: 91

First Use: Output from Policy Processor, Module 2.1, Edit Policy

Name	Description	Position	Format
POLTYP	Policy type. One of: 'ISSUE' 'MOSSC'	1-5	A5
	= sign	6	A1
ISSUE	ISSUÉ code	7-10	A4
	'L0='	11-13	А3
LOGRAD	Lowest grade to which policy applies	14-15	A2
	'HI='	16-18	А3
HIGRAD	Highest grade to which policy applies	19-20	A2
	'AG='	21-23	А3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	А3
	'VALUE='	27-32	A6
VALUE	Fill value	33-35	13
	Filler	36-38	Ä3
	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
	'MOS='	57-60	A4
MOS	MOS or specialty code	61-69	A9
	Filler	70-80	A11

REPORT REQUEST FILE FILE NUMBER 93

Record Length:

Storage Medium: Mass Storage Source File: N/A

First Use: Input to Report Processor

Name	Description	Position	Format
REPNUM	Report number	1-2	A2
	Filler	3	A1
YES/NO	'Yes' or 'no'	4-6	А3
	Filler	7	A1
WHICH	Report type: 'MOS', 'All', 'ORIGINAL', , 'MOS SUB', 'Grade Sub', or ISSUE code when report number is 03, 08, 10, or 11; which=blank when repot number is 01, 02, 04, 05, 06, 07 or 09	8-19	A12
	Filler	20	A1
REPNAM	Report name	21-81	A61

 $[\]star$ Please refer to section 2.4.6 and Appendix C, section 5 for a full description on the use of this file.

APPENDIX B

USER DEFINED FILES

B.1 ISSUE DEFINITION FILE

- **a. Purpose.** The ISSUE Definition file specifies the unit aggregation level and the method PRIM will use to locate the correct units. Two additional aggregation levels are specified by the combinations of characters used in the ISSUE code.
- b. ISSUE Code Development. The ISSUE code is always four characters as shown in the example ISSUE Definition file, Figure B-1. The first character of the ISSUE code represents the highest aggregation level that is less than the total Army; many of the reports provide totals for every set of ISSUEs that have the same first character. Readiness reports containing "Aggregated ISSUE" in the title will sum all data with the same first character and report only the totals. The second and third characters are used to specify a second aggregation level. When ISSUEs share the same first three characters of the ISSUE code, they will be subtotaled on output reports. The fourth character of individual ISSUEs that do not belong to other ISSUEs at the second level should be the special character of "-", dash (also called hyphen or minus). A graphic representation of this hierarchy is shown in Figure B-2. In the example ISSUE Definition file, CONUS divisions are the lowest aggregation level. Since CONUS divisions are in specific geographic locations (in the example location is the second aggregation level), the fourth character of the code is alphabetic, not dash. The units that are colocated are specified with the same characters 1, 2, and 3; the one with a geographic name has a dash (-) for the fourth character, and that name will be used as a title for the subtotals. Included in that ISSUE will be nondivisional units and TDAs that are located there. The third (highest) aggregation level (in the example MACOM) is designated by the first character. The relationships between the aggregation levels of the example are shown in Figure B-3. The network assignment program and the report programs need a name for the third aggregation level. This is entered in the file by placing XOO-(where X stands for any aggregation desired; the example uses MACOMs or CONUS) in the ISSUE code space and the desired name in the correct space, with other fields unspecified. To allow programs to proceed, the programs assign an ISSUE code of "----" to any units not otherwise assigned an ISSUE. Therefore, a dummy entry for both the XOO-and the "----" has been included in the example.

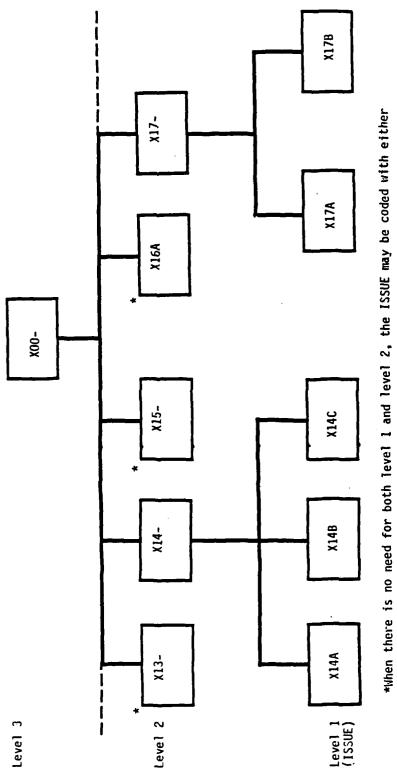
c. Conditions and Requirements

- (1) An individual ISSUE may contain one or many units.
- (2) Different numbers of units may be in each ISSUE.

(3) A PRIM policy will be applied to ISSUEs, not to individual units. If ISSUEs are defined as individual units, the policy will be indirectly applied to individual units by being applied to an ISSUE which is an aggregate of one unit only.

```
IM
                                                                                                   ISSUE
 ISSUE =-00-
                                                                                                                                                                                     NAME=NO UIC ERROR
NAME=BLANK-UIC
                                       -ID1=UIC3
ID1=UIC3
                                                                                                               IDS=
  ISSUE=
                                                                                                                                                                                     NAME=BLANK-UIC
ISSUE=COO-
ISSUE=COO-
ISSUE=COI-ID1=ASGMT =SI
ISSUE=CO2-ID1=ASGMT =SI
ISSUE=CO3-ID1=ASGMT =SI
ISSUE=CO5-ID1=ASGMT =SI
ISSUE=CO5-ID1=ASGMT =DI
ISSUE=CO5-ID1=ASGMT =DI
ISSUE=CO5-ID1=ASGMT =SI
                                                                                                                                                                                    NAME=CONUS (OTHER)
NAME=ARMY SECRETARY
NAME=ARMY STAFF
                                                                                                                105=
105=
105=
                                                                                                                                                                                    NAME-USAREC
NAME-USMA
NAME-DEFENSE ACTIV
NAME-JOINT ACTIVITY
NAME-MEPCOM
                                                                                   =RC
                                                                                   =MA
                                                                                                                 102=
102=
                                                                                   =0 F
                                                                                   =PC
                                                                                                                 IDZ=
                                                                                                                                                                                    NAME = HEPCOM
NAME = COMPUTER SYST
NAME = BALLISTIC MIS
NAME = DARCOM
NAME = MDW
NAME = HEALTH SERVICES
                                                                                                               105=
105=
105=
                                                                                                                102=
102=
                                                                                   =HS
                                                                                                                                                                                     NAME=ACC
NAME=INSCOM
NAME=OLD GUARD
NAME=SITE R
NAME=MOW MP CO
                                                                                   =CC
=AS
                                                                                   = A 4 A
= 3 S T
= C UM
= C B
                                                                                                                 102=
                                                                                                                 ÎD2=
ID2=
                                                                                                                                                                                     NAME=CID
                                                                                                                                                                                    NAME=CID
NAME=CHIEF OF ENG
NAME=CHIEF OF STA
NAME=SURGEON GEN
NAME=MILPERCEN
NAME=MILPERCEN
NAME=SPEC MP CO
                                                                                                                 Î02=
                                                                                                                                                                                                                                              ENGR
 ISSUE=C20-ID1=ASGMT
ISSUE=C21-ID1=ASGMT
ISSUE=C22-ID1=ASGMT
ISSUE=C23-ID1=ASGMT
ISSUE=C24-ID1=ASGMT
ISSUE=C25-ID1=UIC3
ISSUE=C25-ID1=UIC3
ISSUE=C25-ID1=UIC3
ISSUE=C25-ID1=UIC3
ISSUE=C25-ID1=ASGMT
ISSUE=C26-ID1=ASGMT
                                                                                   =MD
                                                                                                                 102=
                                                                                                                 102=
102=
                                                                                    =MP
                                                                                   =MT
                                                                                    =CYL
                                                                                                                 IDZ=
                                                                                                                                                                                     NAME = SPEC
NAME = SPEC
NAME = SPEC
NAME = ARMY
                                                                                                                                                                                                                                         CO
                                                                                    =C#B
                                                                                                                 ID2=
                                                                                                                                                                                                                              MP
                                                                                                                102=
102=
102=
                                                                                    =C4L
=FH4
                                                                                                                                                                                                                              MP
                                                                                                                                                                                                                              MP
                                                                                                                                                                                                                                          CO
                                                                                                                                                                                                                              AUDIT
                                                                                   =AU
  ISSUE = C27-ID1=ASGMT
                                                                                   =GB
                                                                                                                                                                                     NAME=NATL GUARD BU
                                                                                                                 ID2=
                                                                                                                                                                                     NAME=USAREUR
NAME=1ST ARM
NAME=3RD ARM
  ISSUE = E DO -
 ISSUE=E01+ID1=TPSN =02001
ISSUE=E02+ID1=TPSN =02003
ISSUE=E03+ID1=TPSN =04003
ISSUE=E03+ID1=TPSN =04003
ISSUE=E05-ID1=ASGMT =EH
ISSUE=E99-ID1=ASGMT1=E
ISSUE=E99-ID1=TPSN =04004
ISSUE=E99-ID1=TPSN =04004
ISSUE=E99-ID1=TPSN =04004
                                                                                                               102=
102=
102=
                                                                                                                                                                                                                                         DIV
                                                                                                                                                                                     NAME=8TH INF
NAME=3RD INF
NAME=56TH FA
                                                                                                                                                                                                                                          ĎĬÝ
                                                                                                                 ID2=
                                                                                                                                                                                                                                          BGD
                                                                                                                                                                                     NAME=30THER USAREUR
NAME=4TH MECH-EUR
NAME=2ND ARM-EUR
                                                                                                                IDZ=
IDZ=ASGMT
IDZ=ASGMT
   ISSUE=E99CID1=TPSN
                                                                                    =04001 ID2=LOCCO =GE
                                                                                                                                                                                      NAME=IST HECH-EUR
```

Figure B-1. ISSUE File Example



a dash or an alphabetic character in the fourth position.

Figure B-2. Aggregation Hierarchy

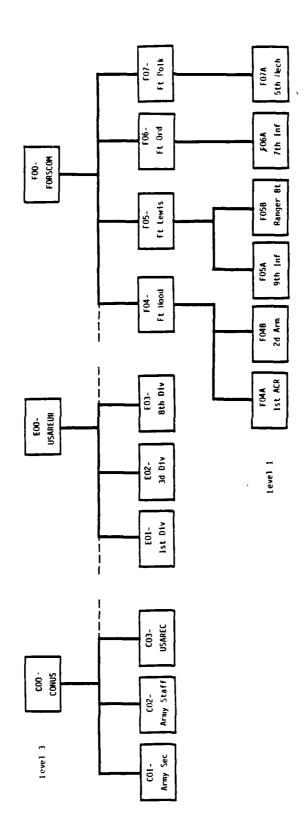


Figure B-3. Hierachy of Example

- (4) The maximum number of ISSUEs that may be defined for one run is 300.
- (5) A PRIM policy may apply to more than one ISSUE (See Section B.3 Policy file)
- (6) If necessary, multiple combinations of identification methods may be used for each ISSUE, but each method should uniquely identify a subset of units.
 - (7) Units may not be included in more than one ISSUE.
 - (8) All units should be included in an ISSUE.

Field

d. Data Entries. The format is described in the file description for file 14, ISSUE Definition file. The unnamed fields such as "ISSUE=" must be on each definition record; all records without these fields will be ignored. ID1, ID1VAL, ID2, ID2VAL, and ISSNAM must be left justified. All fields except ID2 and ID2VAL are required as described below. Valid combinations of ID1 and ID2 are shown in Table B-1. The sequence is the processing sequence and the reset variable indicates whether an ISSUE will be reset during that process if it had been set during a previous process.

Needed for

ISSUE Code	Data aggregated to the desired level is labeled with the ISSUE code.
ID1	At least one method of identification must be provided for each ISSUE code. See Table B-1 for the valid combinations of ID1 and ID2.
ID1 Value	In addition to the method, one or more specific values which are unique to the desired units must be specified.
ID2	A second identification method is only required when it is impossible to uniquely identify the units using ID1. If it is not needed, this field may be blank. See Table B-1 for valid ID2 variables.
ID2 Value	When a second identification method is specified, the associated value(s) must also be specified. If ID2 is blank, ID2 value should also be blank.
ISSUE Name	The report programs use this name for print purposes.

Table B-1. ISSUE Identification Methods

Sequence	ID1	ID2	Reset
1	TPSN	ASGMT	N/A
2	TPSN	LOCCO	Yes
3	TPSN	STACO	Yes
4	TPSN	_	No
5	UIC3	-	Yes
6	ASGMT	LOCCO	No
7	ASGMT	STACCO	No
8	ASGMT	-	No
9	ASGMT1	-	No

B.2 PARAMETER FILE

a. Purpose. The Parameter file provides the user with maximum flexibility. Much of the program logic such as number of characters desired in an MOS, the amount of assignment substitution allowed, and the cut-points for readiness ratings is controlled by entries in the Parameter file.

b. Conditions and Requirements

- (1) All variables described below must be provided.
- (2) Parameter file records must be in the exact format described in the file description for file number 17, Parameter file. An example of the Parameter file is shown in Figure B-4. Blank records or comment records may be added; they must not mimic the format of another required record.
- (3) Except for the relationship between NGRADE and the valid grade names, the Parameter file records may be in any order.
- c. Data Entries. This section provides an expanded description of the data required for record type 1, and of the relationships between record type 1 and record type 2 or 3. See the file description for the Parameter file (file 17) for the format of record types 2 and 3. All entries for record type 1 and for record type 2 are required; record type 3 is required only when assignment substitution is requested.

```
ARAMETER
                                                                                                        RIM
                                                                                                                                                                                                                                                                     F
                                                                                                                                                                                                                                                                            ILE
                                                                          AS OF DATE TO SELECT FROM AUTHORIZATIONS SELECTION LOGIC IS: TOATE < ASOF <= EDATE
                                 =860930
                                                                        AS OF
 NGRADE=13:
                                                                            NUMBER OF DISTINCT GRADES ON INVENTORY DATA
                                                                                                                                         DATA
E2 DATA
E3 DATA
E4 DATA
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E56 DATA
E7 DATA
E9 DATA
O12 DATA
O12 DATA
O14 DATA
O4 DATA
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E1200:
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                                                                         NUMBER OF MOS CHARACTERS TO AGGREGATE - ENLISTED ONLY NUMBER OF MOS CHARACTERS TO AGGREGATE - ENLISTED ONLY NUMBER OF MOS CHARACTERS TO AGGREGATE - OFFICERS ONLY NUMBER OF MOS CHARACTERS FOR MATCHING (MAX=9) - USE LARGEST INPUT EXCESS PEOPLE FILE FOR MOS SUBSTITUTION INPUT UNFILLED JOB FILE FOR MOS SUBSTITUTION INPUT EXCESS PEOPLE FILE FOR GRADE SUBSTITUTION INPUT UNFILLED JOB FILE FOR GRADE SUBSTITUTION
MCCHAREA:
MCCHAREA:
MOSPECEAL
MOSJOBESI
GRDPECEAL
GRDJOBESI
                                                                            NONAVAILABILITY RATE FOR READINESS PROCESSOR
  NONAVA=.05
  MOSSUB=YES
                                                                           MOS SUB ALLOHED - FORMAT(7x,A5,A9,6x,A3,A9)
                                      FROM = 11B
                                                                                                                                                 TO=100B
 SCDSUB=NO :
                                                                           SPECIALTY CODE SUBSTITUTION ALLOWED
  ENLSUB=YES
                                                                           ENLISTED GRADE SUB ALLOWED
                                      FROM=E3
FROM=E4
FROM=E5
FROM=E6
FROM=E7
                                                                                                                                                 TO=E4
TO=E5
TO=E6
TO=E7
TO=E8
                                      FROM =E 8
                                                                                                                                                 TO=E 9
  OFFSUB=YES:
                                                                            OFFICER GRADE SUB ALLOWED
                                                                                                                                                                                                                                          FORMAT(7x, A5, A2, 13x, A3, A2)
                                      FROM=02
FROM=03
FROM=04
FROM=05
                                                                                                                                                 TO=03
                                                                                                                                                 TO=04
TO=05
TO=06
                                                                           USE AUTHORIZED (AUT) OR REQUIRED (REQ.) STRENGTH?
                                                                                BREAK BETWEEN C2
BREAK BETWEEN C3
BREAK BETWEEN C4
BREAK BETWEEN C3
BREAK BETWEEN C3
BREAK BETWEEN C4
 C1VALA=0.900:
C2VALA=0.800:
C3VALA=0.700:
C1VALH=0.850:
C2VALH=0.750:
C3VALH=0.650:
                                                                                                                                                                                              C1 RATINGS
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C3 RATINGS
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USED
USED
                                                                                                                                                                           AND
```

Figure B-4. Parameter File Example

Columns

Description

1 8 ASOF =YYMMDD	As of date of the inventory and authorization data, this date is printed on the formatted reports.
1 8 NGRADE=nn	Two-digit integer representing the number of separately identified grades in the data. The largest valid integer is 16. This record must be followed by one blank or comment record which must be followed by at least nn type 2 records.
1 8 NCHENL=n	The number of characters of the MOS to use for enlisted data; maximum value is 9.
1 8 NCHOFF=n	The number of characters of the specialty code to use for officer data; maximum value is 9.
1 8 NCHWOF=n	The number of characters of the MOS to use for warrant officer data; maximum value is 9.
1 8 NCCHAR=n	Number of characters PRIM will use to match MOS of people against MOS of job. The maximum value is 9; the normal setting is the largest of NCHENL, NCHOFF, and NCHWOF. However, if desired, this may be smaller than any of the three other values. In the Assignment Processor, this number of characters will be used for all grades; preprocessing sets all characters beyond NCHENL, and NCHWOF to blank.
1 8 MOSSUB=YES or MOSSUB=NO	Whether MOS substitution will be allowed on this run. If the value is "YES", type 3 records must follow. If the value is "NO", all of the type 3 records following this will be ignored.
1 8 SCDSUB=YES or SCDSUB=NO	Whether specialty code substitution will be allowed. If the value is "YES", type 3 records must follow. If the value is "NO", all of the following type 3 records will be ignored.

Columns

Description

1 8 ENLSUB=YES or ENLSUB=NO

Whether enlisted grade substitution will be allowed. As for MOSSUB and SCDSUB, type 3 records must follow a value of "YES" and will be ignored following a "NO" value.

1 8 OFFSUB=YES or OFFSUB=NO

Whether officers grade substitution will be allowed. Type 3 records must follow a value of "YES" and will be ignored following a "NO" value.

1 8 TYPSTR=AUT or TYPSTR=REQ

A value of "AUT" means the authorized strength will be used for developing the fill levels; a value of "REQ" means the required (structure) strength will be used.

1 8 MOSPEO=nn

The file number for input of excess people for MOS substitution; the number may be 41 or 43. Normally, 41 is used when MOS substitution is run immediately after regular assignment, and 43 is used when grade substitution is run first.

1 8 MOSJOB=nn

The file number for input of unfilled jobs for MOS substitution; the number may be 51 or 53. When MOSPEO is 41, MOSJOB should be 51; when MOSPEO is 43, MOSJOB should be 53.

1 8 GRDPEO=nn

The file number for input of excess people for grade substitution; the number may be 41 or 42. Normally, 41 is used when grade substitution is run immediately after regular assignment, and 42 is used when MOS substitution is run prior to grade substitution.

1 8 GRDJOB≃nn

The file number for input of unfilled jobs for grade substitution; the number may be 51 or 52.

1 8 NONAVA=.nn

The percentage of assigned personnel not available for duty converted to a decimal and subtracted from 1.00; could be considered as the percentage of assigned personnel who will be available for duty converted to a decimal rate.

Columns

Description

1 8 C1VALA=.XXX	The break between C-2 and C-1 rating for aggregate available strengths (page 3-11, AR 220-1, Unit Status Reporting, dated 1 June 81).
1 8 C2VALA=.XXX	The break between C-2 and C-3 rating for aggregate available strengths (page 3-11, AR 220-1, Unit Status Reporting, dated 1 June 81).
1 8 C3VALA=.XXX	The break between C-3 and C-4 rating for aggregate available strengths (page 3-11, AR 220-1, Unit Status Reporting, dated 1 June 81).
1 8 C1VALM=.XXX	The break between C-2 and C-1 ratings for available MOS or senior grade percentage (page 3-12, AR-220-1, Unit Status Reporting, dated 1 June 1981).
1 8 C2VALM=.XXX	The break between C-3 and C-2 ratings for available MOS or senior grade percentage (page 3-12, AR-220-1, Unit Status Reporting, dated 1 June 1981).
1 8 C3VALM=.XXX	The break between C-4 and C-3 ratings for available MOS or senior grade percentage (page 3-12, AR-220-1, Unit Status Reporting, dated 1 June 1981).

B.3 POLICY FILE

a. Purpose. The Policy file specifies the minimum and maximum fill levels and the associated assignment value for specific grades or aggregations of grades in specific ISSUEs, specific MOS or SC, or in a specific combination of ISSUE and MOS. All policies which are related to specific MOS or SC must be entered in this file; ISSUE policies that apply to all grades individually may be entered here or in the Value file; policies specified in terms of aggregations should be entered in the Policy file; policies that do not apply to all grades must be specified here (see Table B-2).

b. Conditions and Requirements

- (1) All ISSUE codes must be defined in the ISSUE Definition file.
- (2) The same grade cannot be used on more than one individual grade record or in more than one aggregated grade record for an ISSUE, an MOS or SC, or a specific combination.

Table B-2. Choice of Policy or Value

Related to	Pay grade	File
ISSUE	Less than all	Policy
ISSUE	All, aggregated	Policy
ISSUE	All, individually	Policy or Value
MOS	Any number, both aggregated and not	Policy
ISSUE and MOS	Any number, both aggregated and not	Policy

- (3) If an ISSUE-specific policy is inconsistent with a policy stated for the including aggragated-ISSUE, the ISSUE-specific policy will be ignored; an error message will be given. The only way to correct this type of error is to delete the ISSUE-specific policy or to delete the aggregated ISSUE policy and replace it with one record for each ISSUE included in the aggregation, except the one that would otherwise cause the error.
- (4) A warning message is given for every fill percentage greater than 200 percent (2.000 in decimal).
- (5) Although the Value file is not compared with the Policy file, the user should consider both files when setting the values in each. In general, Policy file values should probably be less than the Value file minimum fill values; it may be desirable to set the Policy file values to smaller values than the Value file minimum values and larger than the Value file maximum values.
- (6) When a policy record applies to fewer grades than are in the data, only those grades specified are written to the Job Assignment Value file; the data for other grades is saved for the application of other policies or the Value file.
- (7) The minimum percentage must be less than or equal to the maximum percentage.
 - (8) The low grade must be less than or equal to the high grade.
- (9) The value of each assignment between the minimum and the maximum will, by default, be the same as the value for each assignment up to the minimum.

c. Data Entries. All entries are required except "ISSUE=XXXX" for MOS policies and "MOS=XXXXXXXXXX" for ISSUE policies. For correct column numbers, see the file description for file 91, Policy file. In the following data descriptions, the description on the right applies to the X value on the left. An example of a Policy file will be found in Figure B-5.

Field	Description
ISSUE=XXXX or MOSSC=bbbb	For ISSUE policies, this is a valid four character code from the ISSUE file; the ISSUE code is blank for MOS policies.
LO=XX	The lowest grade to which this policy applies.
HI=XX	The highest grade to which this policy applies.
AG=XXX	If the policy applies only to the aggregate of the low grade through the high grade, XXX should be YES. Another record(s) should be input which specifies the policy for the individual grades. On those records, XXX=NOb.
VALUE=XXX	The value or worth of meeting this policy. In general, the magnitude of the policy values will be larger than the maximum fill value in the Value file. It may be advantageous to set the minimum fill value in the Value file larger than this policy value. The job with the largest value will be filled first.
MIN=X.XXX	The smallest percentage (converted to a decimal) of assignments that should be made for this grade(s), ISSUE, and/or MOS.
MAX=X.XXX	The largest percentage of assignments that may be made for this grade(s), ISSUE, and/or MOS (converted to a decimal).
MOS=XXXXXXXX	This field is blank for ISSUE policies; otherwise, it is required. Although the MOS may be up to nine characters in length, the number of characters should not be larger than the number of characters specified for the grade in the Parameter file.

•	PRIM P	0 L I C Y	FILE	
-			:	
ISSUE=C01-L0=(ISSUE=C01-L0=(ISSUE=C01-L0=(ISSUE=C01-L0=(03HI=03AG=N0 04HI=06AG=N0	VALUE: 5 VALUE: 5 VALUE: 5	MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS= MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS=	ARMY SECR ARMY SECR ARMY SECR ARMY SECR
ISSUE=C02-L0=(ISSUE=C02-L0=(ISSUE=C02-L0=(ISSUE=C02-L0=(03HI=03AG=N0 04HI=06AG=N0	VALUE = 5 VALUE = 5 VALUE = 5 VALUE = 5	MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS= MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS=	ARMY STAF ARMY STAF ARMY STAF ARMY STAF
ISSUE=C03-L0= ISSUE=C03-L0= ISSUE=C03-L0= ISSUE=C03-L0=	04HI=06A6=N0	SVALUE = 5 VALUE = 5 VALUE = 5 VALUE = 5 VALUE = 5	MIN=1.00 MAX=1.10 MOS= MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS= MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS=	USAREC USAREC USAREC USAREC USAREC
7551P-650 1 000		WALES 5	MANUAL BE MANUAL AS NACE	
ISSUE = CD4 -LO=	AOHT =0P VP =ND	VALUE = 5	MIN=1.00 MAX=1.10 MOS=	USMA
Transport And			MTN=1 00 MAN=1 10 Mas=	
ISSUE=COS-LO=	MOHT = DO MG = MO	VALUE = 5	MIN=1.00 MAX=1.10 MOS=	DEFENSE A
TC C 11 C C C C C C C C C C C C C C C C			MINI	
ISSUE=CO6-LO=	#041-0946-H0	VALUE = 5	MIN=1.00 MAX=1.10 MOS=	JOINT ACT
ISSUE = CO7 - LO= ISSUE = CO7 - LO= ISSUE = CO7 - LO= ISSUE = CO7 - LO= ISSUE = CO7 - LO=	03HI=03AG=N0 04HI=06AG=N0	VALUE = 5 VALUE = 5 VALUE = 5 VALUE = 5	MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS= MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS=	MEPCON MEPCON MEPCON MEPCON
ISSUE=C08-L0=	0241-0246-90	VALUE = S	MIN= .70 MAX=1.90 MQS=	CHP SYS C
15 SUE = C08 = L0= 15 SUE = C08 = L0= 15 SUE = C08 = L0= 15 SUE = C08 = L0=	02HT=06A6=N0	VALUE = 5 VALUE = 5 VALUE = 5 VALUE = 5	MIN= .70 MAX=1.90 MQS= MIN=1.00 MAX=1.10 S C=53 MIN=1.00 MAX=1.10 MOS= MIN= .70 MAX=1.90 MOS= MIN=1.00 MAX=1.10 MOS=741A	CMP SYS/S CMP SYS/C CMP SYS/C CMP SYS/7
15 5 15 - C 10 - 1 A - 1	V041-04 AC-NO	WALLET 6	MIN-1 OR MAY-1 10 MOC-	
ISSUE = C 09 -L 0=1		VALUE = 5	MIN=1.00 MAX=1.10 MOS=	BALLIS MI
ISSUE=C10-L0= ISSUE=C10-L0=			MIN=1.00 MAX=1.10 S C=97 MIN=1.00 MAX=1.10 S C=51	DARCOM/SC DARCOM/SC
****		***		
1220E=C12-C0=	E3HI=E9AG=YE	SANTRE 2	MIN= .97 MAX=1.10 MOS=	OLD GUARD
TACHEROL: 100			Manual 40 Manual 40 Manual	
			MIN=1.00 MAX=1.10 MOS=	PTIF -4-
70018-017-1-07				****
	-			MDW MP CO
			· · · · · · · · · · · · · · · · · · ·	

Figure 8-5. Policy File Example

B.4 VALUE FILE

a. Purpose. The Value file specifies, by ISSUE, the minimum and maximum percentage of authorized or required spaces that the Assignment Processor should attempt to fill. In addition to the value for filling up to minimum fill level, a value for filling from the minimum up to the maximum is specified. An example of a Value file is in Figure B-6.

b. Conditions and Requirements

- (1) There should be one record for every ISSUE, but no more than one per ISSUE.
- (2) In general, the value of filling from zero to the minimum should be greater than the value of filling from the minimum to the maximum.
 - (3) The minimum fill value may be equal to the maximum fill value.
- (4) The Value file is not applied to data for which a valid policy had been present. In other words, the Policy file must contain the largest desired percentage for all entries; no data element will have both a Policy file record and a Value file record applied.
- c. Data Entries. All entries in this file are required. For the correct columns, see the file description for file 19, Value file. In the following data descriptions, the description on the right applies to the XX field on the left.

Entry	Description
ISSUE=XXXX	A valid, four-character ISSUE code from the ISSUE file.
MINIMUM=X.XXX	Minimum percentage fill converted to decimal. The records that are created from this data will show the minimum and maximum fill levels both equal to this rate times the desired fill for each grade level; the aggregate fill levels will be the sum of the grade fills.
MINVAL=XXX	This value will be used on the records described above for MINIMUM. This is normally larger than MAXVAL and may be larger than the policy values.

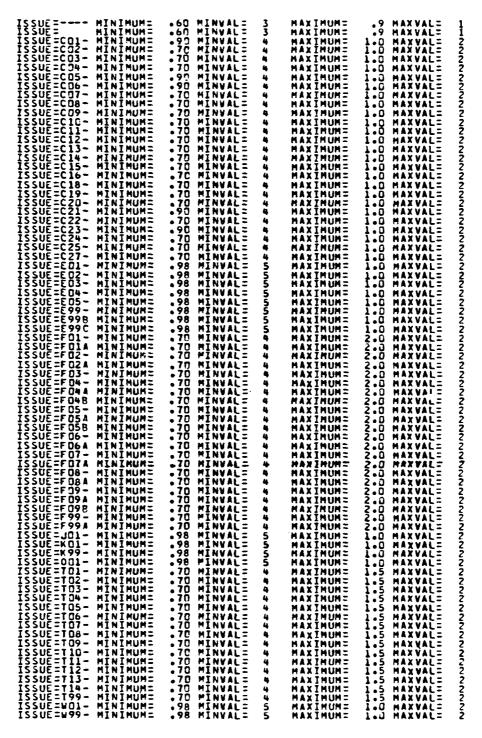


Figure B-6. Value File Example

MAXIMUM=X.XXX

Maximum percentage fill converted to decimal. For each record created above, if MAXIMUM is greater than MINIMUM, another record is created with a minimum fill of zero for all grade levels and for the minimum aggregate fill. The desired maximum fill level is the desired (i.e., authorized or required) fill times MAXIMUM. Since the minimum fill should be assigned in response to the first record, the number entered as the maximum in this record is the minimum fill level subtracted from the desired maximum fill level.

MAXVAL=XXX

The value for each assignment above the minimum fill level, up to the maximum fill level. This value is normally smaller than the values used in the Policy file and the MINVAL in this file.

B.5 REPORT REQUEST FILE

a. Purpose. The Report Request file specifies the formatted readiness reports to be produced by the Report Processor. The different readiness report types are specified in Table B-3; the column numbers can be found in the description Job file 93.

Table B-3. Readiness Report Types

Report type	Report subt <i>y</i> pe	Report name
1 2 3		ISSUE Summary Report
2	0.1	Speciality Summary by Aggregate ISSUE
3	ALL MOS and	Speciality Summary by ISSUE - All specialties
	MOS code	Specialty Summary by ISSUE - Specified Speciality
4		Speciality Summary by Grade
5		Grade Summary by Aggregate ISSUE
6 7		Grade Summary by ISSUE
7		High Five Summary
8	ALL	ISŠUE Listing - ALL ISSUEs
	ISSUE code	ISSUE Listing - Specific ISSUE
9		C-rating
10	ALL	Excess Personnel - ALL Types
	ORIGINAL	Excess Personnel from Regular Assignment
	MOS SUB	Excess Personnel from MOS Substitution
	GRADE SUB	Excess Personnel from Grade Substitution
11	ALL	Unfilled Jobs - All Types
	ORIGINAL	Unfilled Jobs from Regular Assignment
	MOS SUB	Unfilled Job from MOS Substitution
	GRADE SUB	Unfilled Jobs from Grade Substitution

- **b.** Conditions and Requirements. All formatted readiness report types within the range of 01 to 11.
- c. Data Entries. This file is not variable except for the YES/NO and WHICH fields. All report entries should remain in the file, change only the YES/NO field and MOS or ISSUE in the WHICH field.

Description

Field

REPNAM

REPNUM=XX	A valid two character readiness report number
YES/NO	Either "YES" or "NO." When this report type is to be produced, set YES/NO to "YES." When this report type is not to be produced, set YES/NO to "NO."
WHICH	Report type must be "MOS," "ALL," "ORIGINAL," "MOS SUB," " GRADE SUB," MOS code, or ISSUE code when report number is 03, 08, 10, or 11; must be blank when report number 01, 02, 04, 05, 06, 07, or 09.

Report name

APPENDIX C

ERRORS, WARNINGS, AND OTHER MESSAGES

ERROR 1 THE ISSUE FILE IS EMPTY.

Conditions: No valid ISSUE definitions were found in the ISSUE file.

Result: File must be corrected and the Set ISSUE program must be rerun.

ERROR 2 ROLMOS/PROCESS 1.1.2 SHOULD BE REPROGRAMED. THE STRENGTHS AT THE 3-DIGIT UIC LEVEL ARE LARGER THAN ALLOWED FOR BY THE FORMAT.

Conditions: The number of jobs is larger than can be written with the format I6.

Result: The computer system will set the number of jobs to asterisks (*) when the number is greater than 999,999.

ERROR 3 THE MINIMUM PERCENTAGE IN THE VALUE FILE MULTIPLIED BY THE NUMBER OF JOBS CREATED A RECORD OF ALL ZEROES.

Condition: When the number of jobs to be filled is very small, the result of the multiplication may round down to zero. For example, if there is only one job to be filled, a percentage of less than 50 percent will round down to zero.

Result: The job record is written to the Unfilled Job file instead of to the Job Assignment Value file.

ERROR 4 GRADE IN JOB DATA IS NOT IN PARAMETER FILE.

Condition: The Parameter file did not specify the grade code found in the MOS data as a valid grade.

Result: The data with the invalid grade is not written to the output file.

ERROR 5 ISSUE DATA NOT COMPLETE. ISSUE NOT FOUND FOR UIC.

Condition: If the message is from process 1.2.3, the UIC record specified does not belong to a valid ISSUE, i.e., the ISSUE definitions were not complete. The specified unit was not included in any ISSUE definitions. If the message is from process 1.2.5, there was an MQS record which did not get the ISSUE set; the UIC record may have been missing from the input file (file 22).

Result: The unit for which the ISSUE was not defined will have the ISSUE set to "----", the "invalid" designation.

ERROR 6 PROGRAMING MUST BE ADDED TO PROCESS 1.2 TO SET ISSUES FOR ID1 and ID2.

Condition: ISSUE definitions of ID1 and ID2 were not one of the valid combinations from Table B-1, ISSUE Identification Methods.

Result: No units will have the ISSUE set according to this definition.

ERROR 7 NO UIC-DATA RECORD FOUND FOR ISSUE.

Condition: An ISSUE definition did not match any data in the UIC-data file.

Result: The definition is otherwise ignored.

ERROR 9 ISSUE ON JOB FILE NOT ON CURRENT ISSUE FILE.

Condition: During the writing of the formatted readiness reports, the ISSUE codes found on the readiness files (which come from the Job file) are matched with the ISSUE Definition file to get the ISSUE name. If an ISSUE code is not found, this message is written, and the subroutine ISSUNA provides an error indication to the report writing program.

Result: The report processor stops for the user to provide the correct ISSUE Definition file.

ERROR 10 ISSUE ON POLICY FILE NOT DEFINED IN ISSUE FILE.

Condition: The ISSUE and Policy files are incompatible. All ISSUEs on the Policy file must be defined on the ISSUE file.

Result: The Policy record is ignored.

ERROR 11 LOW GRADE IN POLICY FILE IS BLANK.

Condition: The low grade in the Policy file is blank.

Result: The Policy record is ignored.

ERROR 12 HIGH GRADE IN POLICY FILE IS BLANK.

Condition: The high grade in the Policy file is blank.

Result: The Policy record is ignored.

ERROR 13 LOW GRADE IN POLICY FILE IS INVALID.

Condition: The low grade in the Policy file must be El through E9, W0, or O1 through O6 and must be specified in the Parameter file.

Result: The Policy record is ignored.

ERROR 14 HIGH GRADE IN POLICY FILE IS INVALID.

Condition: The high grade in the Policy file must be E1 through E9, W0, or O1 through O6 and must be specified in the Parameter file.

Result: The Policy record is ignored.

ERROR 15 HIGH GRADE IN POLICY FILE IS LESS THAN LOW GRADE.

Condition: The high grade in the Policy file must be the same as or larger than the low grade in the Policy file.

Result: The Policy record is ignored.

ERROR 16 MINIMUM IN POLICY FILE IS GREATER THAN 2.0. MINIMUM USUALLY 1.0.

Condition: The minimum percentage is greater than 200 percent; the usual minimum percentage is less than 100 percent.

Result: The Policy record is applied using the rate that was input.

ERROR 17 MAXIMUM IN POLICY FILE IS GREATER THAN 2.0.

Condition: The maximum percentage in the Policy file is greater than 200 percent; the usual maximum percentage is near 100 percent.

Result: The Policy record is applied using the rate that was input.

ERROR 18 MINIMUM IN POLICY FILE GREATER THAN MAXIMUM ON POLICY FILE.

Condition: The minimum in the Policy file is greater than the maximum.

Result: The Policy record is ignored.

ERROR 19 VALUE IN POLICY FILE LESS THAN ZERO.

Condition: A negative value was found in the Policy file.

Result: The negative value is applied to the MOS data.

ERROR 20 CHECK VALIDITY OF MINIMUM AND MAXIMUM PERCENTAGES ON POLICY FILE FOR ISSUE.

Condition: The minimum percentage and/or the maximum percentage on the Policy file is invalid for the specified ISSUE.

Result: The Policy record is ignored.

ERROR 21 AGGREGATE VALUE SHOULD NOT BE BLANK, VALID VALUES ARE YE (FOR YES) OR NO.

Condition: AG= on the Policy file must be followed by NO for a non-aggregated policy or by YES for an aggregated policy.

Result: The Policy record is ignored.

ERROR 22 INVALID AGGREGATE. THERE IS AN INVALID OVERLAP OF GRADES USING MULTIPLE AGGREGATES FOR ONE ISSUE.

Condition: The same grade may not be included in more than one specification for the same ISSUE, MOS, or combined ISSUE/MOS.

Result: All but the first specification will be ignored. Aggregate-ISSUE level specifications are considered first. A later specification for the same grade(s) for a specific ISSUE will be ignored.

ERROR 23 UNABLE TO SET MINIMUM AND MAXIMUM FILL LEVELS FOR ISSUE.

Condition: Either the minimum percentage or the maximum percentage in the Value file is invalid.

Result: Record is not written to the JAV file. Correct the Value file and rerun.

ERROR 24 THE JOB-ASSIGNMENT-VALUE FILE IS EMPTY.

Condition: No valid entries found in Value file, File 19.

Result: No additional records were written to the Job Assignment Value file (40).

ERROR 25 INCORRECT FORMAT FOUND IN VALUE FILE FOR ISSUE.

Condition: Data in Value file is not in the specified format.

Result: No additional records for the specified ISSUE were written to the JAV file.

ERROR 26 UNABLE TO SET ASSIGNMENT VALUES FOR ISSUE.

Condition: When written from Apply Policy, the number of MOS per ISSUE was greater than 676; when written from Set Base Values, there was not a valid Value record for this ISSUE.

Result: Record is not written to the JAV file. Check output from Set ISSUE, 1.2. If more than 676 MOS are in one ISSUE, delete or correct errors in the MOS file. Make sure ISSUE codes match (all four characters) in the ISSUE and Value file.

ERROR 27 POLICY FILE IS EMPTY.

Condition: No valid entries were found in the Policy file.

Result: All JAV records will be based on the data from the Value file.

ERROR 30 INVALID GRADE ON PARAMETER FILE.

Condition: The grade location in the Parameter file was not a 2-digit integer with a value of 16 or less.

Result: The location is not included as a valid location.

ERROR 31 INVALID LOW GRADE VALUE ON PARAMETER FILE. VALUE SHOULD BE INTEGER.

Condition: Low grade must be an integer value greater than zero and less than 16.

Result: The program cannot correctly set the subscript values for storing the data by grades. The error must be corrected.

ERROR 32 INVALID HIGH GRADE ON PARAMETER FILE. VALUE SHOULD BE INTEGER AND EQUAL TO NGRADE.

Condition: High grade must be an integer value greater than zero and less than or equal to 16.

Result: The program cannot correctly set the subscript values for storing the data by grades. The error must be corrected.

ERROR 34 GRADE IN POLICY FILE IS NOT IN PARAMETER FILE

Condition: One of the grades on the specified policy record does not match the valid grade codes entered in the Parameter file. A policy cannot be applied to grades that do not exist in the input data, and the data will contain only grades specified in the Parameter file.

ERROR 35 INVALID GRADE OVERLAP. ONE OF THE INCLUDED GRADES HAS BEEN USED ON A PREVIOUS POLICY FOR AGGREGATED GRADES.

Condition: One or more grades has been used in more than one policy that is of the type that is aggregated across grades. No more than one policy can be applied.

Result: The entire record containing the policy that is specified in the error message is ignored.

ERROR 36 INVALID GRADE OVERLAP. ONE OF THE INCLUDED GRADES HAS BEEN USED ON A PREVIOUS POLICY FOR NONAGGREGATED GRADES.

Condition: One or more grades has been used in more than one policy that is of the type that is not aggregated across grades. No more than one policy can be applied.

Result: The entire record containing the policy that is specified in the error message is ignored.

ERROR 37 AS OF DATE IS MISSING FROM THE PARAMETER FILE.

Condition: As stated, there is no as of date in the Parameter file or the variable name is not spelled correctly in the Parameter file.

Result: The report programs will show a blank as of date.

ERROR 39 NGRADE IS MISSING FROM PARAMETER FILE.

Condition: NGRADE is not specified correctly. Either it was not spelled correctly, not placed in the correct columns, or the integer did not convert correctly to an integer of 16 or less.

Result: The program will not correctly process any further data.

ERROR 40 NCCHAR IS MISSING FROM PARAMETER FILE.

Condition: Either NCCHAR is not in the Parameter file, it is misspelled in the Parameter file, or it is not in the right columns in the Parameter file.

Result: The number of characters cannot be compared in the Assignment program. All programs using NCCHAR must be rerun.

ERROR 41 TYPSTR IS MISSING FROM PARAMETER FILE - USER MUST SPECIFY WHETHER STRENGTH SHOULD BE AUT OR REQ.

Condition: TYPSTR is either not in the Parameter file, is misspelled in the Parameter file, is not in the right columns in the Parameter file, or the AUT and/or REQ is missing.

Result: The Policy programs cannot continue. Correct the Parameter file and rerun.

ERROR 42 NCCHWO IS MISSING FROM PARAMETER FILE.

Condition: Either NCCHWO is missing, misspelled, or in the wrong columns in the Parameter file.

Result: ROLMOS program cannot work correctly. Correct the Parameter file and rerun the ROLMOS program.

ERROR 43 THERE WERE NO ISSUES DEFINED BY UIC ON THE ISSUE DEFINITION FILE (warning message).

Condition: There was an ISSUE definition in File 14 that was not used by any of the data in the files.

Result: The ISSUE definition was ignored. If it should have been used, look at the ISSUE in File 14, find the error, correct, and rerun the Set ISSUE program.

ERROR 44 INVALID MOS SPECIFICATION ON POLICY FILE. NUMBER OF CHARACTERS SPECIFIED IS LARGER THAN NUMBER OF CHARACTERS SPECIFIED ON PARAMETER FILE (warning message).

Condition: The Policy stated in the Policy file contained a larger number of characters in the MOS than had been specified in the Parameter file.

Result: This Policy will be ignored unless the Policy file is corrected and the Apply Policy programs rerun.

ERROR 45 THE SUM OF THE MAXIMUM FILL OF GRADES IS LESS THAN THE MINIMUM AGGREGATE FILL.

Condition: At least two policy records were taking effect at the same time. One would have been for the aggregate of several grades, and the other would have been for the grades within that aggregate having a different minimum percentage fill. When the sum of the maximum fill of the individual grades is less than the minimum required fill for the aggregate of those grades, the Assignment programs will give an infeasible arc. This error must be corrected on the Policy file and the Policy programs rerun.

Result: The record is ignored.

ERROR 46 INVALID GRADE OVERLAP ON POLICY FILE. THERE IS MORE THAN ONE SPECIFICATION FOR GRADE.

Condition: More than one policy included this grade.

Result: The second policy is ignored.

ERROR 61 THE MAXIMUM IS LESS THAN THE MINIMUM ON THE VALUE FILE.

Condition: The maximum percentage fill was less than the minimum percentage fill on the Value file (File 19). This will be impossible to fill to more than the minimum stated. One record for the minimum percentage fill will be written to the Job Assignment Value file.

Result: Only the minimum is used.

ERROR 62 MAXIMUM VALUE ON VALUE FILE IS LARGER THAN THE MINIMUM (warning message).

Condition: The value for the maximum percentage would normally be smaller than the value for the minimum percentage. When it is not, this error is given as a warning.

Result: The records have been written to the Job Assignment Value file. If this was not desired, the Value file should be corrected and the Set Base Value program rerun.

ERROR 70 THE INPUT MOS FILE IS NOT SORTED CORRECTLY. ISSUES ARE NOT IN ORDER.

Condition: Each ISSUE code is checked against the previous ISSUE code. The last code must always be greater than or equal to the previous code. If not, the MOS-data file aggregation will not be performed correctly.

Result: The program will halt with the error message. The user must sort the MOS-data file on MOS within ISSUE code and rerun process 1-3, Aggregate MOS-data.

ERROR 71 THE INPUT MOS FILE IS NOT SORTED CORRECTLY. MOS NOT IN ORDER.

Condition: Each MOS is checked against the previous MOS. The last MOS must always be greater than or equal to the previous MOS. If not, the MOS-data file aggregation will not be performed correctly.

Result: The program will halt with the error message. The user must sort the MOS-data file on MOS within ISSUE code and rerun process 1-3, Aggregate MOS-data.

ERROR 96 MORE THAN 300 ISSUES ARE DEFINED ON THE ISSUE FILE.

Condition: No more than 300 ISSUE codes may be defined. The Edit Policy program found more than 300 unique ISSUE codes.

Result: Policies for all ISSUEs numbered 301 and up will be ignored.

ERROR 97 UNABLE TO WRITE UNIQUE DEMAND NODE NAME IN POLICY PROCESSOR FOR THE PRESENT DEMAND NODE IDENTIFIER.

Condition: More than 676 different MOS records were read for one ISSUE and all records beyond 676 will have the same demand node name.

Result: Results are unpredictable.

MESSAGE 98 END OF DATA FOR PROCESS.

Condition: During running of the Apply Policy modules, different sets of data are used at different points. Whenever the end of the particular

set of data is reached, MESSAGE 98 is output to signal the user that the end of file was needed.

Result: No effect.

MESSAGE 99 READ OR WRITE ERROR ON UNIT.

Condition: A read or write error on the unit specified has occurred. The reason is probably that the file has disappeared, is not available for use, or the file name is misspelled on the assign and/or use statement in the runstream.

Result: The programs cannot continue. The error must be corrected and the programs rerun.

ERROR 103 MULTIPLE DEFINITION OF ISSUE FOR THIS UNIT. RESETTING ISSUE (warning message).

Condition: The unit having the ISSUE set at the moment has already been included in an ISSUE definition, and the ISSUE is being reset from the previous ISSUE to this ISSUE. If that is not desired, the ISSUE file must be corrected, and the Set ISSUE program rerun.

Result: ISSUE has been changed to reflect the new ISSUE definition. This message is a warning only.

ERROR 104 THERE IS NO SUMMARY LINE TITLE FOR ISSUES (warning message).

Condition: The Report processor was unable to find the "00" level record in the ISSUE file.

Result: This report cannot be produced unless the ISSUE file is corrected.

ERROR 113 MINIMUM ON POLICY FILE IS GREATER THAN 1.0 (warning message).

Condition: Merely a warning that the minimum percentage from the Policy file is greater than 100 percent. Normally, the minimum would be less than 1.0, but it is allowed to be more than 100 percent.

Result: The minimum is used as stated.

ERROR 125 JOB-DATA RECORD CONTAINS NO JOBS FOR ISSUE (warning message).

Condition: If this message is output from ROLMOS, it means that there were no authorized or required jobs for this ISSUE and MOS combination. In other words, both numbers were zero. If output from the Apply Policy program, it means that there were no jobs of the specific type of data requested in the Parameter file (authorized or required). There may have been required jobs, but the request was for authorized, which was zero. It also can be output after the multiplication of the Policy or Base Value minimum or maximum times the authorized or required jobs. Rounded to the nearest integer, it might turn out to be zero. In other words, fairly small numbers of people

required for a job multiplied times a very small percentage may round to a zero.

Result: The data is dropped from the data base. If it should not be dropped, then the applicable file should be corrected and the programs rerun.

ERROR 126 JOB-DATA RECORD CONTAINS NO JOBS FOR UIC (warning message).

Condition: Similar to ERROR 125, the Job-data record contains a zero in the number of people authorized and required. The program that outputs this message is ROLMOS.

Result: The data is dropped from the data base by the program ROLMOS.

END

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